AGTCCGGGGG	ACCTTTTTAG	TCGGTAGATT	GAGATTGCAA	ACAAATCTGC	ATCTACATTG	4860
AAAGCTTAAT	TTCTAATAAT	TGAAAAAATC	GAATGAAAAA	TTTCTTACCT	TCATTCACAG	4920
AGCTCGATTT	CAGAGCTCTT	TTTGCTAGCT	TATTCATACT	TTTCTGAATT	TCGAAAAAGA	4980
AATGTAAGCG	TTTGATAGAT	TTACAAAAAG	ATTGTATAAT	AGGGATAAGA	ATAGAAAAGG	5040
AGAAGTCTCA	TGGCAGTTAA	AGATTTTATG	ACCCGCAAGG	TAGTTTATAT	TAGTCCAGAT	5100
ATAACAGTAT	CTCATGCAGC	AGATTTGATG	AGAGAGCAAG	GTTTGCACCG	TCTGCCTGTT	5160
ATCGAAAATG	ATCAATTAGT	TGGTTTGGTG	ACTGAGGGAA	CCATTGCACA	AGCAAGTCCA	5220
TCTAAAGCAA	CAAGTCTTTC	TATCTATGAG	ATGAATTATC	TTCTGAATAA	GACAAAAGTA	5280
AAAGATGTCA	TGATTCGCGA	TGTTGTCACT	GTCTCAGGCT	ATGCTAGTCT	AGAAGATGCA	5340
ACTTATCTGA	TGTTGAAAAA	TAAGATTAGT	ATTCTCCCTG	TCGTAGATAA	CCATCAAGTA	5400
TACGGAGTTA	TTACTGACCG	TGACGTTTTC	CAAGCCTTTC	TTGAAATTGC	AGGTTATGGC	5460
GAAGAAGGGA	TTCGTGTACG	CTTTGTTACA	GAAGATGAAG	TTGGTGTTCT	TGGAAAAATT	5520
GTTTCTTTGA	TTGTAGAAGA	AAATTTGAAT	ATCTCCCATA	CAGTCAATAT	TCCGCGTAAG	5580
GATGGTAAGG	TGATTATCGA	AGTGCAAATC	GATGGATCAA	TTGATTTACC	AGCCTTGAAA	5640
GAAAAATTTG	AAGCAAATGG	TATTCAAGTG	GAAGAAATCG	CTCGCACTTC	AGCAAAAGTC	5700
TTGTAAGAAG	GGAAGCCCAA	AGGCTTCTTT	TTTCATGAAA	AGGGGATTAG	AGCAAAAGAT	5760
GGAAAGAAAT	GATAAAATAT	GCTATAATGA	AATAATGTAA	AAAAGGAGTA	TTTATGGACA	5820
TTTCAGTAAT	TCGTCAGAAA	ATTGACGCAA	ATCGTGAAAA	ATTAGCTTCT	TTCAGGGGGT	5880
CTCTTTGACC	TCGAAGGGCT	AGAGGAAGAG	ATTGCCATCT	TGGAAAACAA	GATGACAGAA	5940
CCTGATTTTT	GGAACGATAA	TATTGCGGCC	CAAAAAACGT	CGCAAGAATT	AAATGAATTA	6000
АААААСАСТТ	ACAATACCTT	CCATAAGATG	GAAGAGTTGC	AGGATGAAGT	CGAAATTTTA	6060
TTGGATTTTT	TGGCTGAAGA	CGAGTCAGTG	CATGATGAAC	TGGTAGCGCA	GTTAGCCGAA	6120
CTTGATAAGA	TAATGACCAG	CTACGAGATG	ACTCTACTCT	TGTCAGAACC	TTATGACCAC	6180
AACAATGCCA	TCTTGGAAAT	CCATCCAGGT	TCTGGTGGTA	CTGAGGCGCA	GGACTGGGGT	6240
GATATGTTGC	TTCGTATGTA	TACTCGTTAT	GGTAATGCTA	AAGGCTTTAA	AGTGGAAGTG	6300
TTGGATTACC	AAGCAGGTGA	TGAGGCTGGT	ATTAAGTCGG	TAACTTTATC	ATTTGAAGGG	6360
CCTAATGCCT	ATGGTCTCCT	CAAGTCAGAA	ATGGGTGTTC	ACCGCTTAGT	GCGAATCTCA	6420
CCATTTGACT	CTGCCAAACG	TCGCCATACC	TCTTTCACAT	CTGTAGAAGT	GATGCCAGAA	6480
TTGGATGATA	CTATTGAAGT	GGAAATCCGT	GAAGATGATA	TCAAGATGGA	TACCTTCCGT	6540

TCAGGTGGTG	CCGGTGGACA	AAACGTCAAT	750 AAGGTTTCAA	CAGGTGTACG	TTTAACCCAC	6600
ATTCCAACTG	GAATTGTTGT	CCAATCAACA	GTAGATCGTA	CCCAGTATGG	AAATAGAGAT	6660
CGTGCCATGA	AGATGTTGCA	GGCTAAGCTC	TATCAAATGG	AGCAAGATAA	GAAGGCTGCG	6720
GAGGTAGATT	CTCTCAAAGG	TGAGAAAAAG	GAGATCACTT	GGGGAAGCCA	AATCCGTTCT	6780
TATGTCTTCA	CGCCTTATAC	TATGGTAAAA	GATCACCGAA	CTAGCTTTGA	GGTTGCTCAG	6840
GTAGATAAGG	TTATGGATGG	GGACCTAGAT	GGTTTTATCG	ATGCTTATCT	CAAGTGGCGA	6900
ATTAGCTAAG	ATAGAAAGGA	ACTCACATGT	CAATTATTGA	AATGAGAGAT	GTCGTTAAAA	6960
AATACGACAA	CGGAACAACT	GCTCTACGCG	GTGTTTCGGT	TAGCGTTCAA	CCGGGGGAAT	7020
TTGCTTACAT	CGTAGGACCT	TCAGGAGCAG	GGAAGTCAAC	TTTTATTCGT	TCTCTGTATC	7080
GTGAAGTAAA	AATCGATAAA	GGAAGCCTAT	CAGTTGCTGG	TTTTAATCTG	GTTAAGATCA	7140
AAAAGAAAGA	TGTCCCGCTT	CTACGTCGTA	GTGTTGGGGT	TGTCTTCCAG	GATTATAAAT	7200
TGTTACCAAA	GAAAACTGTC	TATGAAAATA	TTGCTTACGC	TATGGAAGTA	ATCGGGGAAA	7260
ATCGCCGTAA	TATCAAAAGA	CGAGTGATGG	AAGTTTTGGA	CTTGGTTGGA	TTGAAGCATA	7320
AGGTTCGTTC	TTTCCCAAAT	GAACTCTCAG	GTGGGGAGCA	ACAGCGGATT	GCGATTGCGC	7380
GTGCAATTGT	AAATAATCCC	AAAGTATTGA	TAGCTGATGA	GCCAACAGGA	AATCTGGATC	7440
CGGATAATTC	ATGGGAAATT	ATGAATCTCT	TGGAACGGAT	TAACYTACAA	GGAACAACTA	7500
TTTTGATGGC	GACTCATAAT	AGCCAGATTG	TAAATACCTT	GCGCCACCGT	GTCATTGCCA	7560
TTGAAAATGG	CCGTGTCGTT	CGTGACGAAT	CAAAAGGAGA	GTATGGATAC	GATGATTAGT	7620
AGATTTTTTC	GCCATTTATT	TGAAGCCTTA	AAAAGTTTGA	AACGAAATGG	TTGGATGACA	7680
GTAGCTGCTG	TCAGTTCAGT	CATGATTACT	TTGACCTTGG	TGGCAATATT	TGCATCTGTT	7740
ATTTTCAATA	CAGCGAAACT	AGCTACAGAT	ATTGAAAATA	ATGTCCGTGT	AGTAGTTTAT	7800
ATCCGAAAGG	ATGTGGAAGA	TAATAGTCAG	ACAATTGAAA	AAGAAGGTCA	AACTGTTACA	7860
AATAATGACT	ACCACAAGGT	ATATGATTCT	TTGAAGAACA	TGTCTACGGT	TAAAAGTGTT	7920
ACCTTTTCAA	GTAAAGAAGA	ACAATATGAA	AAATTAACCG	AGATAATGGG	AGATAACTGG	7980
AAAATCTTTG	AAGGAGATGC	CAATCCTCTC	TATGATGCCT	ATATTGTAGA	GGCAAACACT	8040
CCAAATGATG	TAAAAACTAT	AGCCGAAGAT	GCTAAAAAAA	TTGAAGGTGT	CTCTGAGGTT	8100
CAAGATGGCG	GTGCCAATAC	AGAAAGACTC	TTCAAGTTAG	CTTCATTTAT	CCGTGTTTGG	8160
GGACTAGGGA	TTGCTGCTTT	GTTAATTTTT	ATCGCAGTTT	TCTTGATTTC	AAATACCATT	8220
CGTATTACCA	TTATTTCCCG	CAGTCGCGAA	ATTCAAATCA	TGCGCTTGGT	CGGAGCTAAA	8280
AACAGTTATA	TCCGTGGACC	GTTCTTGTTA	GAAGGAGCCT	TTATCGGTTT	ATTGGGAGCT	8340

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ATCGCACCAT	CTGTTTTGGT	CTTTATTGTT	TATCAAATTG	TTTACCAATC	TGTCAACAAA	8400
TCGTTGGTAG	GGCAAAATCT	ATCCATGATT	AGTCCAGATT	TATTTAGTCC	GTTGATGATT	8460
GCCCTACTAT	TTGTGATTGG	GGTTTTCATT	GGTTCATTGG	GATCAGGAAT	ATCCATGCGC	8520
CGATTCTTGA	AGATTTAGGT	AAAATAGCTG	CTTTTATGAG	GAGATTGTAA	AATCTCCTTT	8580
TTTGCTACAA	GAGTTTTTGA	AAAGAGATGC	GCAGAAGAAA	AGAGCTTCCA	AAGAAGTCCC	8640
CCAGAGAAGA	CTTC					8654

# (2) INFORMATION FOR SEQ ID NO: 99:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19718 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

TGTCGCGTCA AA	ATCATTAC TATGGCTAT	G TATAGCCCTT	ACTATGACTT	GGCTAAACAC	60
GTTCGCTTTC AA	ATTTCTAG GCTCAGGCT	G AAACAGTCTC	CCAGGCTGTT	CACTCCCGAA	120
TGCTAAAATC GT	TCTTGATC GCTTTCACA	T TGTACAACAT	CTTAGCCGTG	CTATGAGTCG	180
TGTGCATGTC CA	AATCATGA ATCAGTTTC	A TCGAAAATCC	CATGAATACA	AGGCTATCAA	240
GCGCTACTGG AAZ	ACTCATTC AACAGGATA	G CCGTAAACTG	AGTGATAAGC	GATTTTATCG	300
CCCTACTTTT CGG	CATGCACT TAACAAATA	A AGAAATTCTT	GACAAGATTT	TAAGCTATTC	360
AGAAGACTTG AA	ACACCACT ATCAGATCT	A TCAACTCTTA	CTTTTTCACT	TTCAGAACAA	420
AGACCCTGAG AAA	ATTTTTCG GACTCATTG	A GGACAATCTG	AAGCAGGTTC	ATCCTCTTTT	480
TCAGACTGTC TT	TAAAACCT TTCTCAAAG	A TAAAGAAAAG	ATTATCAACG	CCCTTCAACT	540
ACACTATTCT AA	FGCCAAAC TGGAAGCGA	С СААТААТСТС	АТСАААСТТА	TCAAGCGCAA	600
TGCCTTTGGT TT	rcgaaact ttgaaaact	T CAAAAAACGG	ATTTTTATCG	CTTTGAACAT	660
CAAAAAAGAA AGG	GACGAAAT TTGTCCTTT	C TCGAGCTTAG	CTGACTTCAA	CCCACTACAG	720
TTGACAAAGA GCC	CTAATTTC CATAAAAAT	T GACATGGAAA	TTATAAAACC	ATTACTAGTT	780
TAGTCCTTTT TG	ATAACGTG CCAATTCGG	C TTGGTTCGCC	CAAACATAGT	GACCTGGACG	840
GATTTCTACC AT	AGATGGCT TATCAGTCT	C ATAGTCGTGT	TGACTTGGAT	CGTAAACCTT	900
CAAGACCTTC TTA	ACGTTCCA AGATTGGAT	C TGGGATTGGT	ACCGCTGAAA	GCAAGGCTTG	960
AGTATATGGG TG	AATTGGAT TGTTAAACA	A TTCTTCTGTT	TCTGCAACCT	СТАСААТААС	1020

752 ACCCTTGTAA ATAACTGCGA TACGATCTGA AATAAAGCGA ACAACCGACA AGTCATGGGC 1080 GATGAAGAGA TAGGTCAGGC CGAGCTCTTT TTGGAATTTT TTGAGCAAGT TCAAGACTTG 1140 GGCACGTACA GAAACGTCCA AGGCTGAAAT TGGCTCATCT GCAATAACAA AGTCTGGTTG 1200 CATGACCAAG GCACGGCAA TACCGATACG TTGACGTTGA CCGCCTGAGA ATTCATGAGG 1260 GTAACGAGTC AAGTGCTCAG CAAGAAGACC TACTTCACGG ATAATATTTT GAACTTTCTC 1320 TTTACGTTCT TCTTCATCCT TAAATAAACG GTGATTGTAA AGACCTTCAG AAATAATATA 1380 ATCAACAGTC GCACGTTCAT TCAAACTTGC GGCAGGGTCT TGGAAAATCA TCTGGATTCG 1440 ACGAATCAAT TCCGCAGCTT GTTCACGCGA TTTCTTACCA TTAATCTTTT GACCATCAAA 1500 AATGATATCT CCATTACTTG TATCATTTAG ACCGATGATA GCACGACCAA TAGTTGTTTT 1560 CCCACTACCG GACTCACCTA CAAGCGAGAA AGTTTCTCCC TTGTTGATAA AGAAGTTAGC 1620 ATTTTAACC GCGACAAACT TCTTACTTCC TTCACCGAAG GAAATTTCTA AATCTTTGAT 1680 TTCTACTAAT TTTTCAGACA TTTCCTTCCT CCTAGTCAGC CAGATGGGCA AATCCCATTT 1740 TTTCACGGAT CTTATCATGG AGATTTGCAA TCACAGCTGG TTTTTCTACT TTCGGAGCAT 1800 CCTCATGAAG AAGCCAAGTT TTAGCCCAAT GTGTCTCTGA TACTGAGAAT TGAGGAGCTT 1860 TTTGTTCGAA GTCAATCTGC ATTGCGTAGT CAGAACGCAA GGCAAAAGCA TCCCCTTTCA 1920 GGTCAGTATA AAGTGACGGA GGTGTTCCTG GGATTGAGTA AAGATCCCCT TTATCATCAG 1980 CAAGCTGAGG CAAGCTAGAC AAGAGACTCC ATGTATATGG ATGGCGAGGG TCATAGAAGA 2040 CTTCCTCAAC CGTTCCATAC TCAACGATTT CTCCTGCATA CATAACCGCT ACCTTATCCG 2100 CAATACTTGC CACCACCA AGGTCGTGGG TAATAAAGAT TGTTGTGAAA TGATACTCGT 2160 TTTGTAAAGA TTTTAGCAAA TCAATAATCT GAGCTTGAAT AGTTACATCC AAGGCAGTTG 2220 TTGGCTCATC ACAGATCAAG ACATCAGGTC GGCAGGCAAG GGCAATAGCA ATAACGATAC 2280 GTTGACGCAT TCCTCCAGAA TATTGGAATG GGTATTCATT AAAACGTCTA TCTGCGTCTG 2340 GAATGCCAAC CTTATTCATG TAGTCAATGG CCAATTCTTT CGCTTCTTTA GCTGTTTTTC 2400 CTTGGTGTTT TACAATAACT TCTGTAATCT GACTACCAAT TGTTTTAATG GGGTCCAAAC 2460 TAGTCATTGG GTCCTGGAAG ATAGTCGCAA TCTTAGCACC ACGAATTTGT TCCCAATCCT 2520 TGTGAGAAGA TAAAGCTGTC AAGTCCTGAC CACGGTAGTC AATACTACCT TGGGCAATAC 2580 GACCATTTTC TTCGAGCATA CCTGTGAAGG TCTTTGTCAA AACAGATTTA CCTGATCCTG 2640 ACTCACCTAC CAAGGCTAAT ACTTCTCCTT CGACTAGTTC AAGGGAAACG CCGCGAATGG 2700 CTGTCAATAC TTTGTCACGA ACGTCAAATT CCACGACAAT ATCGCGAGCA GTCAAAATTA 2760 CATTTTTTC TTTTGTCATT TCTACTCCTA TCTATGTGTA CGTGGATCAC TAGCATCCGC 2820

TAAGTTTTGA	CCAACTACGA	AAAGGGACAA	GGATACCAAG	ACAAGGGTTG	TCAATGGAAT	2880
CCAGAACAAG	TAAGCATTGG	TTGTTACGTT	TTGTGAATAA	TCCGAAATCA	AACGACCCAA	2940
ACTTGGCACT	GTAATCGGTA	ATCCAAGACC	GAAGAAAGAC	AAGAAGGCTT	CGTATGAGAT	3000
AAAGCTTGGA	AGCATTTGAG	TCATGGTTGT	CACAATAACA	GATACCAATT	GAGGCATGAT	3060
ATTTTTGGCA	ACAATCTTCA	AGGTTGGTGT	TCCCAAAGTA	CGTGACGCCA	AGTTGTATTC	3120
CAAGTCACGA	TAGCGCAAGA	TTTGCACACG	GATCATGAAG	GCAATACCAA	TCCATGTTGT	3180
TACGCTCATG	GCAAAAATCA	GATTCCAGAA	TCCAGCTCCG	ATTGAGTAAG	TCAAGACAAT	3240
AACAATCAAA	AGAGGTGGGA	TGTTTGAGAT	GACGTTGTAA	ACTTCCATCA	TGACACGGTC	3300
AACTGATTTT	GAAATACCCC	AAATACCACC	GACAAAAACA	CCGATAACCA	AGTTAATCAC	3360
TGTCGCAATC	ACAGAAATGA	GGATGGAGTT	ACGAGCTCCG	AACCAGACAC	CGTCAAAGAG	3420
CGATTTACCG	TTACTGTCAG	TACCGAACCA	ATGCTCCGCA	TTTGGCTTGA	TATAACGAAC	3480
ACTAAAGTCG	TTTACCTTGC	TGACATCATT	GAAATCAAAC	TTAGAAAACA	TTGGGTAGAT	3540
GAAACTTATC	AAAATGATGG	CTACCAAGAT	TCCCAACATG	ACTACAGTTG	ATTTTTTTT	3600
CATAAATTGT	TTAAACACTG	ATTTCCAGTA	AGAATATGCT	GGCGCATCAA	TAGTTTCAGA	3660
GGCAAAATCG	TCACGTTTTA	CAAACTGAAA	TTTTTCTTTA	TCGATTGTAG	ACATTATTTG	3720
CCTCCTTTCT	CAGTCAATTT	AATACGTGGG	TCAATAATAG	TCATCCAAAT	ATCTCCCAAA	3780
AGACGTGAGA	AGATAGAAAT	ACATGTAAAG	ATGAAGACAA	GACCAACGAC	CATAGAGTTA	3840
TTAGATGCTT	TTACAGAGTC	AATCAACATT	TTACCCATAC	CTGGGAAGGC	GAAGACTGTT	3900
TCAGTAAGGG	TTGCACCACC	GATAACCCCA	ATAATGGCAG	CAGGAATTCC	TGAAACCAGC	3960
GGAACCATGG	CATTTTTAAA	GATGTGTTTG	TTTGAAATTT	CTTTTTCAGA	CAAACCTTTT	4020
GCACGAGCGA	AACGAACAAA	GTCTTGAGAT	TGCAAGTCAA	TCATGTAACG	ACGAATCCAA	4080
ATGGCTGTAC	CAGGAGCACC	CAACAAACCA	AGGATGACTG	CTGGTAAAAC	GTAAGAACGC	4140
CAATCTCCAG	CTCCCAAGAT	AGGGAATGAA	TCTGGAAGGG	CAATAGATGA	TCCAATCAAT	4200
CGAACGATGT	AAACCAAGGC	AATCGTTGGA	AGAGCAAGCA	AGAAGGTCAA	AGCCCCTGTT	4260
GAGAGGCTAT	CAATCCAAGT	GTTCTTGAAA	CGAGCCATGG	CTGAACCAAG	TGGCACGGCA	4320
AGAGCATAGG	CAAGAACCAA	ACCAATCAAA	CCAGTAATAG	CAGAGCTGAC	AATCATAGAT	4380
GGATATTGGT	AATTACTTTC	AGTCGCTGTA	TAAGGATCAT	CTTTCCCATA	GCTAGCTACT	4440
TCACGAGAGT	CAGCCTGACT	AGGTGACTTG	TAGGTTCTTG	AGTAAATATT	TACAGAAGAC	4500
GTTTTCTTAC	CTGTTGGGAA	CTGAACTTGG	GCAGTTTTGG	TTTGTCCTTG	ACCTTGAGTA	4560

			754			
ATAACCTGAA	GAACTGGTGT	ATTAGCATAG	GTTGGGTAAG	AGTCACCTAA	ATTCAAGTTC	4620
ACAAAGTTTT	GATGAACAAA	TGGGAACTGA	CTGTTAAAGT	ACAAGAGATA	TTTATGTTTA	4680
GTTCCTGAAC	CGACCAATGA	CCATCCGATA	GCTGGATCAT	TTTCAAAACG	AAGGTAGCGT	4740
TTCAAGTCTG	GATTTTCAGG	GTCTTGGATT	TTATTTGTAT	GGTCAATGTC	AATCAAGTTA	4800
GCATAGAAGT	GAAAAACACG	TTCAAAAATT	GGAATTTCAC	GAGTAGCATA	GAATTGACCA	4860
CTTTCAGTAA	ATTCTCCCAA	AGTCCAACCA	TGACCTAATT	GATTGATGTA	CTTTTCATAA	4920
ATAGCTTTAT	TGGTCGCATT	TGCTTCTACT	GTTACAGAAG	AATCCATGCT	ACTTGCCTTT	4980
PCTTGCAACT	CTTTAGTATC	GTAATACTCA	ATGTAGCCCA	TACGCTCAAA	CACAGTATTT	5040
PCATAGTTAT	CACGTTTATC	AGCCGTTGTC	GCAATTTTAT	TATAGTTAGG	ATCCTGCTTG	5100
AAAATCAATT	TTCGAGGAAC	CAAGGTATAG	ATAATCGTGT	AGGTCAAAGT	CGTTACTAAG	5160
AAAATCGAAA	CCAATGACCG	CAAAACACGC	ATAAAAATAT	ATTTTTTCAT	ATTATTTCCT	5220
гтааааатсс	CAAAAGAACC	TTCTCCTCAT	GGAGAGAAAG	TTCTATTAGA	AATTATTTAC	5280
TTCACATGAC	TTGCCAATTC	TTTTTGAGCT	TTCTCATTTG	ATTCAGCTTT	TTCTTTCAAC	5340
CATTTTTCAC	GAGCTTTTTC	ATACTCTTCC	TTAGTCACCA	CTTTATCTTG	TGATTTCAAA	5400
PATTTGAAGT	AAACATCTGA	CCCCTTAGAG	CCTGTTTGCG	CAGAAGCTCC	AGTAAATGGA	5460
ACAATTCGTG	AAAGCACTGG	TGCTGCACCA	GAAGAAGCCA	TAGCAGGAAT	AAAGAGTGAA	5520
CTATCTGTCA	ACCATGCTTG	AGCCGCTGCA	TATTTTCAT	AACGGACATT	CAAGTCGCTT	5580
STCTCTCTGG	CAGCTTCATC	AACTAATTTA	TCGTATTCTT	TCAAACCAAC	TTGAACTACT	5640
GAAGGGCTAT	TTGGATTATC	AAATCCTAAA	TATGTTTTTG	TAGTTTCACT	GCTAGTTGTT	5700
TAAAATTT	CCAGGTAAGT	AGATGGGTCT	TGATAGTCTG	GCCCCCATGA	AACTCCTCCT	5760
SATACATCCC	AATCCTCAGA	TGAAGCATTG	GCAGCATAGT	AAGTAATATT	AAGGAATTCA	5820
CACTTGTCA	TTTGTTGAAT	ATCAACAACG	ACATTTTCAA	CACCAAGAAC	TGTTTCTACA	5880
SATTGTTTAA	AGGACTGAAT	ACGAGATATG	TAGTTTTTTG	ATGCTTGGTC	TACTGGAACG	5940
CCAGATGAA	TAGGAAACTG	AACGCCGTCT	GCTTCTAAAG	CTTTCTTAGC	TTTCGCAAAC	6000
CTGCCTTGG	CCTTGTCAGC	ATTGAATAAA	CCATCCTGCC	CATCAGCTAA	ATTCACACCT	6060
TCCACTCAT	CACCATAAGC	AGGAAGTTGA	GCAGCGACTA	AATCACCAAA	GGTCTTCTCA	6120
CCAGCTGAAA	CAAAGTCTGG	TTTTACAAAT	AAATTACGAA	CTGCTAAAGC	TGCTCCATCT	6180
TACCATTGA	TTTGAGCTGA	GTAAGCTGAG	CGATCAAGAG	CAAAATTCAA	GGCTTGACGG	6240
AATCTTTGT	TAAGCAATGC	CTTCTTAGTA	GCTACTTTCT	CTGAATCTGT	AGTTTTAGAA	6300
STATAGTTGT	AACTTTGGCG	ATCAATATTC	ACACCCAGAC	CAGCAATCCC	AGAGCCTGAT	6360

TGTGTGTAAT	AGATATTGTC	CTTGTATTCT	TCTGCAACCT	TAGAATAGTT	GGAGCTGGTA	6420
GGGTAAAGAC	GGGCATAACT	ATAAGCTCCA	CTAGTGAAGT	TACGCTCTAG	CGACTCCTGA	6480
TCTGATCCAT	CATAGTAAGC	TAGATTGATA	GTATCTAGGT	GGACATTTTC	TTTATCCCAA	6540
TATTGCTCAT	TTTTTACAAA	CTCTACAGAA	GATTTTGCAG	TCAACCCTTT	CAACAAGAAT	6600
GGACCATTAT	AAAGCAAGGA	TGTCGGATCT	GTTGGTTTAG	CAAAATCGCT	TCCTTTTGAT	6660
GTTTCGAATT	CTTCATTCAG	AGGCCAGAAA	ATAGAATAGG	TCAACTTAGA	GTTCCAGAAC	6720
GGTTCAGGCT	GGTTCAAAGT	GTATTGTAAC	GTATAATCAT	CAACCGCCTT	GACACCAACT	6780
GTTGAAAAAT	CTGTTGAAGT	TCCTGATAGA	TAATCTGCCA	AGCCTTTAAC	CGAATTTTCA	6840
GCTAAATACA	TAGCTTCTGA	TTTTTTATCT	GCTGCGTGTT	TTAAACCGTT	CACGAAATCT	6900
TTAGCCGTCA	CCTCTGCATA	TTCTTCTCCA	TCAGAGGTAA	ACCATTTAAC	CCCTTTACGA	6960
ATCTTATAAG	TGTAGGTCAA	ACCATCCTTA	GAGACTTCCC	AATCCTCTGC	AACTGCAGGA	7020
GCAAGATTAC	CGTAATTATC	GTTAGTGAAT	AAACCATCAA	TCCCATTTGA	AGTCACTACT	7080
GTTGTACTAT	TTTTACTTGA	AATCAGGTAG	TCCAAGGTTT	CTGGGTCTGC	TGTATAAACA	7140
TAGCCATAAG	CTTTAGGGGC	TGATGAATCA	GATGATTTTG	AAGAACTGCA	TGCTGCAAGT	7200
ACACCTGCTG	CTAATAAAAC	AAGACCTGCT	GTAGCAAATA	CACGATTTTT	TTTCATTTTC	7260
TACTCCTCTG	TTTATGTGAA	TTATAGATTG	ACAACCATTA	TATCACATTA	TCCATTAAAA	7320
ATCAAACAAA	TTTTCAGAAT	ATTTAGGCTT	GTTGGCACAA	ATTTTTCATT	TTTTTTGAAT	7380
ATATGATTCA	AATTGTCGTT	CGAAGTGTCA	AAGACTACAG	TGAAAATAGG	AAATTTGACG	7440
CAGAAACTTT	GGAGTTTAGG	AAGACATACA	GTAAAATGAA	ATACGGACGG	AACAATGTGA	7500
TTTTGGAATT	CAAATTAAAT	TATAACAATA	TTGTAGAAGT	ATCATTCTAG	TATTCAAGAT	<b>7</b> 560
TCAGTTTACT	ATGTCTTTTC	ACACCAACCT	TATCCCGAAT	TCAATTACTT	TTGTGATTTA	7620
CATATATAGA	TTAAGACTAT	CTTTTATACT	TTAAAATTTC	TCGCTACCTT	ATCCACTATA	7680
TGCTCCTCGC	TATCACGTTT	CTATTCATAG	CCTACGATTT	CACTATTGCT	TTCTCTGACA	7740
ATTCTTATTT	CCTGCGTCAG	ACTTAAAACG	ATCTATCCCC	AGACCATTTT	AATCCGCTAC	7800
CTCACGATAG	TCAGGCTTGG	GGAGCGCTAT	TGTATTCACC	GGTAGTGGAG	CCCTACAGAG	7860
GACTTACACC	TCAGATGCAC	GACATGCCCA	TCGTATAAAA	AATCTCCTAC	CCAAGGTAGA	7920
AGATTTCAAA	CTTATAAAAC	TTAATCCGTC	ATGTCCGATA	CCAACATTCG	ATGCTCCAAT	7980
GGAATACTGC	ACATAACTAG	CAAGAAAATA	AAGCCTGACT	GAATCCAGAA	GAGAGCCAAG	8040
TCAAAAATTC	CGTGCACAGC	AACCACTGTA	AGGAAAGATA	GATAAAGGCC	GATAATCGGA	8100

756 CGTTTCCCCG ACTCCTGACT CATATCCATC ATCAAGCGAA CAGGAGCAAC AGAAGACAAA 8160 ACTAATAAA TAGTCCCCAC AATTCCGTAA CTCAGAATCG TATCAATATA AAGACTGTGG 8220 GCATGTTCAT GATAAGGAGC ATGTATCCGA GGATAAGAGT TCATATAGGT CAATGGCCCT 8280 TCACCCCAAA AAGGATTTTG CTTAAACAAG GCCATCCCAG CATCCCAGAT AGAAATGCGT 8340 TCTTCCATAG AAGAGTCTAA AGTACCCATT CGAACTCCCA AATCACTAGA AAAGAGGAAA 8400 CTCAAACCAA TCGCGAAGAC CCCAATACTA AGCCAAAAGG CCTTCCAGTT TTTAATAGTC 8460 GTAAAGAGAT AGATAATTGC TCCAGCGATA ATAGCAGGAA AGGCAGTTCG ATTTTGAGTA 8520 AAGTTCAAAC CAAAGAGATT AACAAAGCCT GCAATCACAC AGAATACTTT CAACCAATTC 8580 AACTTGGTCG TTGTAAACAG ATAGAAAGCA ATCATAATAC AGAAACAACA AATAATTCCA 8640 TAATAATTAG GATTAAAGAA GGTCACTTCT GCCCGGTTCT GATGCCACAC CTGCATATTG 8700 GGTGAAAGAA AAGCATAGTT AAATTTCTTC ACAATTTGGA AATGTTCTAA ACTGGCAAAA 8760 GCAGCTGACA AGACACTACC AAACAAGACA AACTGCAAAA TCAATCGAAA GAATTTATGG 8820 GATAAAATCG ACTGATAGTG CAAAAAGAAA ATAGTAAATA GAAACATTCC TACTGAAGCC 8880 ACAAGACCCA TCCAATTTTG TGCAAGAATG GATATAACAG TACTATAGCT AAGAAAAAGA 8940 AGCAGCATCG GATGCTCCCC CATTTTCTGA AGAATACTTT TCATGTCTCC TGTAAAAATC 9000 AAACTGATAA TATATAAACA GAGTACAACT ACAAAAAGAT AAAAGGGTAA AAAGATACTC 9060 AGGATAATTC CCAATAAAAT CAGCTCTTTA CTAGACAACC CCTTCAGCTT TTCAATAAAG 9120 CCTATTGATT TCAAAATGAA TCCTTTCTCT CCAAATCAGC TGATTCAGAT AATAGTAAGC 9180 TATCCTATAT TGTACCACTT TTTTAGCAAT TTGAAAACAA AGGAAACGTT TTCCAAAATA 9240 AAAACCCTAT TTTATCCACC ATATCAAGGC TTCAAAATGA TACTTCAACT CCATTCTCAA 9300 TTACCCGATA AGTCTGATTT TGCAAATCAA TTTCTACTAC TGCTGTTACG GACTTATCTT 9360 TATTTGACG TTTGATTACA ATGCTGTGAG CTGTTGGTGT CTCTATCTCA GTAGTCCCTT 9420 CTAGATCAAA GGCTTCTGAA CGGTTACGGA AAGAAAATAG ATTGAGAAGG GCCTTCACAA 9480 CAGGTCGTTG CACTTCTTTT GCTATTTCCT CGTTGCTATA GTAATGACGA TTAATATTTC 9540 GACCTTCTTT AGTTTCTTCT AATAATTTCA AGTCATTCTT GCCTGCTAAT AGACCCACAT 9600 AGTAAATCTG AGGAATACCT GGGGCAAAAG CTTGAATTAG ACGAGCGAGA AAATACTTGA 9660 CATCATCATC TCCAAGCGCT GAATAGTAGG TTGAATTGAT TTGGTAGATA TCTAAGTTGT 9720 TATACTCGGC ACTAGAGTAC TTACGTTTGA CATTGGCTCC AACCTTATAG AGTTCATTTG 9780 AAGCATAGTC AATCTCCTCA TCGGTCAGGA TATCCTTGAC ATCTACTACT CCAATCCCAT 9840 CATGGGTATC TAGCGTCGTA AATTGCTTCA TCGGGCTCAT CTTTAACCAC TTAGCCAAAC 9900

GCTCTGTTCT	GGAACTGTAA	AGAGTATAAA	GTGTCACCAT	TGGAAGAGCA	AAATCATAAA	9960
CATAGTAATC	ATGGTCTGCT	ATTTTAAACT	GAATCGAATA	GTGTTCATGA	ATCTCAGGTA	10020
AAAGCTCTGT	CCCATACTCA	GCAGCGATAT	CTCGAACTTT	GTCCAATAAA	TCCCAAATAT	10080
CTGGTTCCAC	AAAGAAATCA	TTAGTATCCA	ATTTCTTCAC	TGCATAAGCA	AAGGCATCTA	10140
GACGAATCAA	ATCACACCCA	TTACTTGCCA	AGTGCTGAAT	GGTCTTACGG	ATAAATTCCA	10200
TAGTTACTTC	TTTGGTCACA	TCAAGATCAA	TCTGCTCCTC	ACCAAAGGTA	ТТССАСАААТ	10260
GTTCCACTGA	ACCATCTTCA	AACACAATCT	CTTGCTTTGG	TGCACGATCC	TTACGCTTGT	10320
AAATTAAATC	TACATCAGAC	TGTGTCGGAC	GGTTTTCTGG	CCAAAACTTA	TCCCAGTTTA	10380
AAAAGAGAGC	TTTAAATTCA	CTGGCTTCAT	GTTTTTCTTG	ATAGTCCTTA	TAATACTTGG	10440
ATTGACGAGA	AATATGATTA	ATCATAAAAT	CAAACATAAG	ATAATATTTC	TCACCTAAAC	10500
GCTTCACATC	CTCCCAATCA	CCAAAAGCTG	AGTCCACTTC	GTCGTAGTCA	ACTGGCGCAA	10560
ATCCACGATC	AACTGTTGAT	GGGAAAAATG	GTAAAAGGTG	AACTCCTCCA	ATAGCATCTC	10620
CAAAATGCTC	TTCCAAATTA	TCATATAAGT	CTTTAAGATT	ATTTCCAAGG	CTATCAGAAT	10680
AGGTAATCAA	CATGGTTTTA	TTTTGAATTG	GCATCATTAC	TCTCCTTTTT	CTAATTGAAG	10740
CCAAGTCTCA	TATGATCTGG	CTTCATAAAT	AAAATTCATT	TTAAATCTCT	ATTTATCATC	10800
AAACTCGTAC	TAATATAGAC	TGTGATAAAC	AAAGTACTAC	TTTCTTGTTT	TCTGCATAGA	10860
ATTATCAACA	AGCTAAACTC	TTCCTCTGTG	TCAAAGACTA	TAGATTCCAT	GAGCTCTTCT	10920
TATACTCTTC	GAAAATCTCT	TCAAACCACG	TCAGCTTCAC	CTTGCCGTAG	GTATGGTTAC	10980
TGACTTCGTC	AGTTTCATCC	ACAACCTCAA	AACAGTGTTT	TGAGCAACCT	GCGGCTAGCT	11040
TCCTAGTTTG	CTCTTTGATT	TTCATTGAGT	ATTACTTCAC	TGCCCCGTTG	CTCATTCCTG	11100
AAATGATATG	GCGTTGGAAG	AAGAGATAGA	CAATGGTGAT	ACTGATAATG	CCGACCACGT	11160
AAGAGGCAAA	GCTTGGTCCG	TAGTCGTTGA	AATATTGGCC	TGCGTAGTTG	TATTGGAACA	11220
AAGGCAGAGT	CCACATTTTG	GAATCCCGGT	TCAAGACAAG	GAGTGGCAAC	ATGAAGTCAT	11280
TCCAGAACCA	AAGGGCATTG	ATGATCATGG	TTGTCGCATG	CATCGGTTTC	ATCATTGGGA	11340
AGATGATGCG	GAAATAGGTT	GTAAATTGAT	TAGCCCCATC	GATCTCTGCT	GCTTCATCCA	11400
GACTTTCTGG	AATCGAGATT	TTGATATAGC	CAACATAGAG	AAAGAGGGTC	TGTGGAATCG	11460
CATAGGTCAA	GTAGAGCAAG	ATCAAACCAA	AGGTATTAGC	CAAACCGAGT	TTACTCATCA	11520
TAACCGTAAT	CGGAATCATG	ATGACTTGGA	AAGGTACGAA	GATTCCGAGG	ATTAAGAGGG	11580
TATACATGAT	GGTAAAGGCT	TTTCTTTTAC	TCATATTGCG	AGCGATGGAG	TAGGCTGCCA	11640

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TAGGGATAAA GATCATTACT GCAAGTAAAG ACAAGACAGT GATGACGACA GAGTTCCAAT 11700 AATAGCCTCC AATCCCATCA GCTAAGAGAC GGCTAAAGTT GTCCCATGTG AAGTTGGTTG 11760 GAAAGCCAAA GAAATTATCT ACAATATCCT TAGTGGGTTT GAAGGAACTA AAGAGGGTAG 11820 CAAGGAGCGG CACTAAAATC AGAACCGATC CTAGAATCAA TAGAATGTAT TTGCCAATCA 11880 GGGCTTTTCT TTCATCTTGT TTCATCATGC TTCTCCTCTT AAATTTCAAA TTTCTTAGAT 11940 ACTCTCAATT GGATGATCGA AATCACTACA ATTAAGAAGA ACAAGATTAC GGCAATGGCA 12000 TTGGCATAAC CGAATTGGTT GTTTTTAAAG GCATAGTTAT AAACCAAGAG CCCAAGTGAG 12060 GTTGTGGCAT TGTTTGGACC ACCACCGGTC ATGGCAAAGA CTTGGTCAAA GGCAGTCAGC 12120 CCACCTTTTA GGGCTAGGAT AAAGACCATA GAGACACTTG GTAGCAAGTA AGGCAATTCA 12180 ATGTTCCAGA AAACTTGCTT GCTAGTCGCA CCATCAATCC TTGCTGCCTC TGTAATCTCA 12240 GTTGGAATAG ATTGCAAACC AGCTAGGAAG ATGATGATGG GCATAGCCAC CCCTTGCCAA 12300 AGAAGGACAA AGACAGCCGC AAAGATTGCT CCCCACTTAG TCCCTAAAAG ACTGGTTTGG 12360 AAAAATTCAA TATGAAGGC ATTTCCAATC GCTGGAAGAC CGTAGTTGAA GACTTGCTTG 12420 AAGATCAAAG CCACTGTCAA ACCAGATAAA ACAGCTGGGA AGAAGAACCA AGCACGGAAG 12480 AAGGTTTGGC CTTTGATTTT AGAATTCAAG ACACGCGCAA TGAAGATCCC GAGTGCAATC 12540 TCACCAACCA CCATGCAAT CGCAATGATT GCGGTAAAGC CAATCGCATT CATGAATTTT 12600 GGATCCATGA AGAGGAGCTT AAAGTTGTTT AAGCCAACAA ATTTGTAGTT ATAAGTCAAT 12660 CCTGTCCAGT TGGTAAAACT GTAAAAGGCT CCTTGAAACA TCGGCACATA GAAGAAAATT 12720 GCTTGTAACA AGAGGGGGAT GACCACAAAA GCCCATGCCC AATATTTTTG TAATACTTTT 12780 TTCATAGTCT CTCTACTCCT AATCCACATC CGCTTTCATC GGGTTAAAGA AGGCATTCAA 12840 ATCATTGACC ATGCCTTGTT TATCACCGGT CAAGACATAG TTCATGGTCA AGGTATGGAA 12900 GTCTGCTTCA CTGGTCCAGT ATTGTTGCAA CCAGACCAAG TGACGATCCG TAAAGGCATA 12960 TTCGGTCATA CCAGCAAGCG GTGAATCTTC TCCTGCTTGT TTGACCCCTT CGATCGCTGT 13020 TGGAGATCCG TCCACATCGT AGTATTTTTG CATGACTTCT GGACGGGTCA TATATTCCAC 13080 AAAGGCATTG GCTTCTTTTG GATGTTTGGT GGTGGCTGAG ATAGACCATG CCAAGTCTCC 13140 CGCACCAACG GTTAAGCTTT GTCCTTTTTC TTTTCCTGGA ATCATGAAGG TCCCAATCTT 13200 AAAGTTCGGT TTTTGTTCAT TAATCGCTGT GATCGCCCAA GACCCATTTG GTGTCATGAG 13260 GACATCCCCA CGTGCGAAGG CTCCGATAAC ATCGGTATAG CCAGCACCTT CCCAGTTCTT 13320 TTGCTTAGAT CCATTGATGC GAAGGATGTC CATGACCTTG ATATCATCTT TCATAATCGG 13380 ATCCGACAAT TTAATGGCAT TTGGTTGAGA ATAACGAAGG TATTGATTTG CTTCTTTTCC 13440

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AATTCCATAA	GCATTAGCTG	TAAAAGGAAC	GTTGTAAACT	TTTTCGTTTA	CAGCATATTT	13680
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ACCTGCTTTT	GCCCATTCTT	GCAGTTCGAT	GGACTGTGGG	TAAATATTGA	CCACATCAGG	13800
CACATCTCCT	GCGAGAACGC	GTGTCTTCAA	TACTTCACCA	GCATTTGGTA	CATTGACGAC	13860
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GGTCATTTCT	TTTTTCTGGT	TGAAATACTC	GATGGTCACT	GTGCCATCCG	CAGATTTACC	13980
ATAGTTGGAG	CAAGCGCCGA	GCCCAAACAA	AGCTAAACCT	GTAGTTGCAA	GAAGTCCGAT	14040
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CACCCCAAAA	GTTAGACAGA	ATAAATCTAA	CTTTTGGGGT	CAGTACATAT	CATAGTTTTC	14160
TAAAAATATA	CTGTCTACTC	AAAAAATCTC	CTTGGGATAA	GATAACAGTT	AAGCCCGCAT	14220
ACATTAGTTC	TGCACCTGAG	TAAACTTCGC	CATTTTCCTG	TAATTTATAT	AGTCCCTCTT	14280
CATCCAAATC	TTTTAATTTT	AAAGTTGTTT	CCATGGTCTC	TACAACAGAT	AAAACGCGAA	14340
CGTAGGTTAC	AATCGTTTGA	TTTCCGTAAT	TAAATTGTAC	AGCTGCTTCA	TTGGATACAG	14400
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GTCCCATCTG	ATGATTCGGT	ACTGCTGACA	CATGAGCCCC	CATAGAAATG	GTTGGATAGA	14640
GATAGGATGA	ACCGTATTGA	ATTGGTAAAC	GTGCAATGGC	ATCAGTATTA	TCACTAGCCC	14700
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TGATATTGCG	GTTCATATCC	CATTTAATGT	AATCAATATC	ATGATAAAAT	AGGAGTTGAT	14940
CTAAGACACT	TTTCAAGTAT	TCTACTACCT	GAGGATTGGC	AAGATTAAGT	ACTAATTGAT	15000
TCCGAGAATA	AGTATGCTCA	TAGCCAGGAA	CCTGAATAGC	CCAGTCAGGA	TGTTGACGAT	15060
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TTTCATGGAT	AGCTGAAATC	AGACTTTCTA	GACTTCCACC	CAGTTTTTCC	TCATTAACAA	15180

			760			
CCCAATCACC	TAAAGCACGA	TTATCATCAA	AACGATTGCC	AAACCAACCA	TCATCTAATA	15240
CAAAAAGTTC	AATGCCAACT	TTCTTAGCTT	CATCTGCTAA	CTCTAACAGT	TTTTCTCTCT	15300
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ATCCCTGATC	TGAATGAGTC	ACTAAAGCTA	CCGGTGTTTC	AAAGTATTCC	TCAGGAGCTA	15480
ACTTCCAAGA	AAAGTTTTCT	GGATTAATGC	CAATAGCCAC	CCGAACTTCA	TTCAATTGAT	15540
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CAGCATCCTC	TGTGACTCCT	TGTTCGCATA	GTAGAAGAGC	TGGTGTTTGA	GCATGACCAG	15660
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CAGCCATAAA	AGAAAAATCT	TTATGGATGA	CAACTTCCTG	ATTACTATTA	TTATCTAATT	15840
TACTGTAGCT	AGCAATAGTC	GCATCATTAT	TAAAAGTAGT	ATAATACAAA	GTCAGACTAA	15900
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GAGAAGGTAA	GCCCTGTGGA	CCATTCTGAC	CTTTTAAAAT	CTTTGCTTCT	ACAAATCGAA	16020
AGTCTGTTAC	TTCAGTTACA	CTATGCTGAA	CCTGTATGGT	TGGTTTCCTA	AAATCTCCTA	16080
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TCTCAAGAAT	ATGGTAAAAT	GTTAGGTAGG	AGGTAGCACA	TGTTAGTTTT	TTCAGAATAC	16440
CAGACTGGAA	CAATCGACCT	TGCCCTAAGC	TTTTATGGAT	ATGAGGAATG	CACACCTAAT	16500
TACTCTTTTG	GTCCAGCCAT	TCGTGATACA	TACGTTCTAC	ATTACATTAC	TAAAGGACAA	16560
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CAACTTCATG	AACTGATGTT	TCATCTGGGA	ACTATTGCTC	CCAATCAGAA	AAAAAAGAAT	16920
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AAACAAAATC AACACAACTA	GATGCAAAAG	AAGCAATTGA	TTTAGGCCAT	GAAGCAAATA	17580
CCCTCTATCT AGCTTCCTAT	CAAACAGCAG	GCCGAGGCCG	TTTTCAACGT	TCCTTCTACT	17640
CACCACAAGG TGGTATTTAT	ATGACACTCC	ATCTTAAACC	AAATCTCCCC	TATGACAAAT	17700
TACCATCCTA CACACTACTI	GTAGCTGGAG	CTGTCTACAA	AGCCATTAAG	AACCTAACTT	17760
TAATAGATGT CGACATAAAA	TGGGTCAATG	ATATCTATCT	AAACAATCAT	AAAATTGGAG	17820
GAATCCTTAC TGAAGCAATG	ACCTCTGTAG	AAACTGGCTT	AGTCACAGAT	ATCATTATTG	17880
GAGTAGGTAT CAATTTCACT	ATTAAAGACT	TCCCTCAGGA	ATTAAAAGAA	AAAGCTGCCA	17940
GCTTATTTAA AGCTACAGCT	CCTATAACAA	GGAATGAATT	GATCATAGAA	ATCTGGCGTG	18000
CTTTCTTCGA AACACCAGCA	GAAGAGCTAT	TATACCTATA	CAAAAAACAG	TCATTCATTC	18060
TAGGAAAAGA AGTCACTTTC	ACACTAGAGC	AAAAAGACTA	CAAGGGACTT	GCTAAAGACA	18120
TCTCAGAAAA TGGAAAACTT	TTAGTTCAAT	GTGATAACGG	AAAAGAAATC	TGGCTAAATA	18180
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TTGCGCCAGT TACCCGACCT	AACGATTTAG	CAAACCGTCC	TCTTCAGCCT	CTTGAGTAAT	18420
TCTCCAATTA ATGGGCACGA	GTGGACTCGA	ACCACCGACC	TCACGCTTAT	CAGGCGTGCG	18480
CTCTAACCAC CTGAGCTACG	CGCCCAAGTT	AAAAAACTTG	GTAATTTGAA	CAAAGTTCAA	18540
AGCGGGTGAC GAGAATCGAA	CTCGCGACAA	CAGCTTGGAA	GGCTGTAGTT	TTACCACTAA	18600
ACTACACCCG CATAAATACT	АТСААТАААА	TGGCGCGAGA	CGGAATCGAA	CCGCCGACAC	18660
ATGGAGCTTC AATCCATTGC	TCTACCAACT	GAGCTACCGA	GCCTTATTGC	GGGAGCAGGA	18720

762 TTTGAACCTA CGACCTTCGG GTTATGAGCC CGACGAGCTA CCGAGCTGCT CCATCCCGCG 18780 TTAATAATAT AAAAGGAGGA TGTGGGATTC GAACCCACGC ACGCTTTTAC ACGCCTGACG 18840 GTTTTCAAGA CCGTTCCCTT CAGCCGGACT TGGGTAATCC TCCAATATTC AAATGGACCT 18900 TGTAGGACTT GAACCTACGA CCACTCGGTT ATGAGCCGAG AGCTCTAACC AGCTGAGCTA 18960 AAGGTCCGAC AAGATCATTA TAGCGGCGAA GGGGATCGAA CCCCCGACCT CCCGGGTATG 19020 AACCGGACGC TCTAGCCAGC TGAGCTACAC CGCCATGAAT CGGGAAGACA GGATTCGAAC 19080 CTGCGACACC TTGGTCCCAA ACCAAGTACT CTACCAAGCT GAGCTACTTC CCGAGTTAAA 19140 TAGAAAAATG CACCCTAGAG GAGTCGAACC TCTAACCGCC TGATTCGTAG TCAGGTACTC 19200 TATCCAGTTG AGCTAAGGGT GCTCCATATT ATGCCGAGGA CCGGAATCGA ACCGGTACGA 19260 TCGTTACCAA TCGCAGGATT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCCTC 19320 TCTAAGCGAA CGACGGGATT CGAACCCGCG ACCCCCACCT TGGCAAGGTG GTGTTCTACC 19380 ACTGAACTAC GTTCGCACTG TTTTCTTCTA TCTAAAAATG CCGGCTACAT GACTTGAACA 19440 CGCGACCCTC TGATTACAAA TCAGATGCTC TACCAACTGA GCTAAGCCGG CTCATTTGTT 19500 ATATCTTAAT GCGGGTTAAG GGACTTGAAC CCCCACGCCG TTAAGCGCCA GATCCTAAAT 19560 CTGGTGCGTC TGCCAATTCC GCCAAACCCG CATATATGAC CCGTACTGGG CTCGAACCAG 19620 TGACCCATTG ATTAAAAGTC AATTGCTCTA CCAACTGAGC TAACGAGTCT AAAATAACTT 19680 GCGTTACCTT AAACGGTCCG ACGGAATCGA CCCGGTAC 19718

### (2) INFORMATION FOR SEQ ID NO: 100:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4117 base pairs (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

CCGTGGAAAA	GTCTGGATAG	TGAATGGTCT	TCACACAATG	ACCTGAAAGA	AGCCTG <b>A</b> GAA	60
TAATTATGGA	GAGTAGCATT	CTGAGAGGTG	TTAGCAGAAC	CATATGACAG	AGCTGTTTGA	120
AGAGGGAATA	TTGAGGAGAA	AAATCCTGAG	CCTACCAGTT	GGAGTTGGAA	AGAGCTGACT	180
GTTAGATCAT	GGTTTATTAT	CCACAACCTG	TGGATAACTT	TGTGAATAAG	AGAAGTTGCT	240
AAAGAAGGAG	ATATATAACG	ATGAAGAAAA	TCAAACCGCA	TGGACCGTTA	CCAAGTCAGA	300
CTCAGCTAGC	TTATCTGGGA	GATGAACTAG	CAGCTTTTAT	CCACTTCGGT	CCTAATACCT	360
TTTATGACCA	AGAATGGGGG	ACTGGACAGG	AGGATCCTGA	GCGCTTTAAC	CCGAGTCAGT	420

TGGATGCGCG	TGAGTGGGTT	CGTGTGCTCA	AGGAAACGGG	CTTCAAAAAG	TTGATTTTGG	480
TGGTCAAGCA	CCACGATGGC	TTTGTCCTTT	ATCCGACAGC	TCACACAGAT	TATTCGGTTA	540
AGGTCAGTCC	TTGGAGGAGA	GGAAAGGGCG	ACTTGCTCCT	TGAAGTATCC	CAAGCTGCCA	600
CAGAGTTTGA	TATGGATATG	GGGGTCTACC	TGTCACCGTG	GGATGCCCAT	AGTCCCCTCT	660
ATCATGTGGA	CCGAGAAGCG	GACTACAATG	CCTATTATCT	GGCTCAGTTG	AAGGAAATCT	720
TATCAAATCC	TAACTATGGG	AATGCTGGTA	AGTTCGCTGA	GGTTTGGATG	GATGGTGCCA	780
GAGGAGAGGG	CGCGCAAAAG	GTTAATTATG	AATTTGAAAA	ATGGTTTGAA	ACCATTCGTG	840
ACCTGCAGGG	CGATTGCTTG	ATTTTTTCAA	CAGAAGGCAC	CAGTATCCGC	TGGATTGGCA	900
ATGAACGAGG	GTATGCAGGT	GATCCACTGT	GGCAAAAGGT	GAATCCTGAT	AAACTAGGAA	960
CAGAAGCAGA	GCTGAACTAT	CTTCAGCACG	GGGATCCCTC	GGGCACGATT	TTTTCAATCG	1020
GAGAGGCAGA	TGTTTCCATC	CGTCCAGGCT	GGTTCTACCA	TGAGGATCAG	GATCCTAAGT	1080
CTCTCGAGGA	GTTGGTCGAA	ATCTACTTTC	ACTCAGTAGG	GCGAGGAACT	CCACTCTTGC	1140
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CTGGTCCAGC	TCTTTCCGCA	GACTTTGCTT	GTCGCCATTT	GACAGACGGC	CTTGAGACCA	1320
GCTCTTGGGC	AAGCGATGCA	GACTTGCCCA	TCCAGTTAGA	ACTCGACTTA	GGTTCTCCTA	1380
AAACTTTTGA	TGTAATTGAG	TTAAGAGAAG	ATTTGAAGCT	AGGGCAACGA	ATCGCTGCTT	1440
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GTTACAAACG	TCTCTTACGA	GGAGCAGTTG	TTGAGGCACA	GAAGATACGT	GTAGTCATTA	1560
CAGAATCACA	GGCTTTGCCT	TTGTTGACCA	AGATTTCCCT	TTATAAAACT	CCTGGATTAT	1620
CAAAAAAAGA	AGTTGTTCAG	GAACTAGCAT	TTGCAGAAAA	AAGCCTAGCT	GTGGCAAAGG	1680
GAGAAAATGC	CTATTTTACA	GTTAAGCGCA	GAGAATGTAG	TGGTCCTTTA	GAAGCTAAGA	1740
TTTCGATTCA	ACCGGGGACA	GGTGTCCATG	GTGTCGCCTA	TCAGGATGAG	ATTCAAGTCC	1800
TTGCGTTTCA	AACTGGTGAG	ACTGAAAAA	GTCTGACGCT	ACCAACCTTG	TATTTCGCAG	1860
GAGATAAAAC	CTTGGATTTC	TATCTGAACC	TAACGGTGGA	TGGTCAGCTT	GTGGATCAAC	1920
TTCAAGTCCA	AGTTTCATAA	AAGAAGAACC	TTTGCGCGAT	GCAAAGGTTC	TTTTGGTTAT	1980
FAGTGACTTG	GTAACCAGCT	GAGGGTGAAA	GTTAGTTGTT	CAGCTTTTAA	GAGGTCTTGG	2040
TGTTGAATAG	TTGATACGAG	TGTTTTGTCC	AGTCGGCATT	CTTTGACAAA	GTTAAAATGG	2100
TTGTGGTTTT	GTTTAGTATG	GATATCCAGC	CATTTATCTT	CTTTAGCGAG	GTAGACTCGT	2160

AGATGGTCAA	AGAGAGGGAT	TCCGAGGTCA	764 TAGCTTGGTT	TTCCTGGACA	GGTTGGATAA	2220
AATCCGAGAG	CTGACCAGAT	GTACCAAGCA	GAGAGACTAC	CATTGTCTTC	ATCTCCAGGA	2280
TAGGCTTCCC	AACTTGGGTG	AAAAGCTTTC	TGACGGAGCG	TCTTGATAAG	AAGGGCAGTG	2340
TAGTCAGGGT	AATCGCTGTA	ACGGAAGAGA	TAAGGAATGT	GGAAACTAGG	CTGGTTGGAA	2400
ATGGCTATTT	GTCCAAAAGG	AGCAGTAGCC	ATCTCGCTCA	TTTCGTGAAT	TTCGTAACCA	2460
TAGCCTGTTG	TTTCAAAGAG	GGGAGCATCT	TGACAGGCTT	TCAAAAGATA	GTTGCTAAAG	2520
GTTTCTTTTC	CACCCATCAG	TTGGATTAAG	CCAGGGATGT	CGTGGAGAAC	GCCTAAAGTA	2580
GCTTGAATGG	CAGAGCATTC	AGCGTAGTCT	CGCCCCCAAC	TATAAGGAGA	GAAGTCAGGG	2640
TGAAAGTTTC	CTTGATTGTC	TCGTGCTCGC	ATGTAACCTG	TCTCAGCGTC	AAATAGCTGG	2700
CGGTAATTTT	GTGAAGCAGC	CTTGTAGGTT	TCAGCGATTT	CTATGTTCTC	TAGTTTTTTG	2760
GCACAGCTGG	CGATACAAAA	GTCACTATAG	GCATAGTCTA	GAGTATGGCT	AACACTTTCG	2820
TGGTGGTCGG	TAGAGAGGTA	ACCTAGTTCT	TGGTATTGGG	CTAGTCCGTG	GCGGCCATTG	2880
ATGCCGAGAG	GGTCGGCTTT	GCTGGCTGTT	TCGAGCATGG	CTTGGAAGAG	TTCTCCTTCT	2940
AGGTCGGGGG	TCATGTCCTT	GCAGGCGCTA	TCTGCGATAA	TACCGTCTAA	AAGTGTACCT	3000
GGCATCATAC	CCCGTTCATC	TGGAGCCAGC	CATTTTGGAA	GGAAACCAGT	ATCGCGGTAG	3060
CTATTGAGGA	AACCTTCTAA	AAAGCGTTGA	TAGTGCTCCG	GTATGATAAG	GGCAAAGAGG	3120
GGGAAGGTGG	TGCGGAAGGT	ATCCCAGAAA	CCATTGTTGC	TAAAGAGGAC	ACCAGGCTTG	3180
ACAGTACCAG	TAGCCAGATC	CATGTGGATG	GCTTGCCCTG	ATTCATTAAT	СТСАТААААА	3240
GTCTGTGGGA	AGAGGAAGAG	TCTGTAGAGG	CAGTGGTCAA	AGAAGGTTCG	GTCAGCCTCT	3300
CCTGTCTCTA	TAATGTCAAA	ACGATGGAGG	AGATTTTCCC	AATCCACTTG	GGCACTTGAT	3360
TTACAGCTAT	CAAAATCTTC	TTGAGGTAGA	TTGATTAGAG	CTTGAGAAGG	AGAGATGAAA	3420
GAAGTGGCTA	GTTGCATCTC	GGTTTGACTA	CTTGCTAAGT	CAATTCGCCA	GTCTCCAGCT	3480
TCTTGGCTGA	TAGCAAGAAT	ATCCGTGTTC	ATTTGCAGGG	CAGTGAACAT	CGTTAGCGAA	3540
TTTTTGTTAG	TTTCAGTTTT	ACCTTCTTGT	CGCAGGGCAA	GAGTCCGCTT	ATCTACTTGC	3600
TCTACTGTCA	GTTCATCTGC	TGCGTGAAGA	TAGAGGGAGA	GGGCTTTGCC	TTGCTTTTGA	3660
TTCAAACGAA	TAGAAGCACC	ATAGCAAGTC	GGTGTGAGCT	GGGTTTCAAT	CTGATAACGC	3720
AGAGAAAAGA	GCTTCAAATA	GTGAGGCTGG	AAGCAAGCTT	TATCTATATC	ATAAGAAGAC	3780
TGGCGGTGAA	AGAGGCTGTC	TCCCCCCAGT	TGACTGGTGA	CAGGTGTCAG	AAGGAGCCAA	3840
GAGTAGTCCC	CAATCCAAGG	ACTGGGCTGG	TGAGTTAATC	GAATCCCCTG	AAAGATAGGC	3900
AGATGTGGAT	CAAAAAACCA	AGATCCATCC	TGGTCACTGG	TCTGGGGCAC	AAAGTAATTC	3960

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ATCCCAAAAG GCAC	GCCTGT GTATGGCAGG	GTATTTCCCC	GAGAAAAGGC	ATGCTTGTTG	4020
GTAGTTCCAA AACG	GGTATC GATGGTATCA	AGTAGTGGTT	TCATAGTCTT	TCCTTTAGCT	4080
GTTTTTCTAC ATTA	TATCAG TAATAGAGGG	CCTTTAG			4117
(2) INFORMATION	FOR SEQ ID NO: 1	01:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 2727 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

CTGGTTCAAT	TATTATTCAC	TCTAAGTAGT	CATATGTTCT	TTATTTATGT	GAGTTTTTAC	60
CTTTTAAAGG	ATCTTGTTAG	ATGGGAGAAG	GTTTTAAAAG	TGACAGATGA	TAATACAAGA	120
AAAGTTCGTT	TATTAGTAGC	CTTTTTTAGC	ATTGTCATAG	GCTACATCCT	GAGTTCTTTC	180
TTTATTAGCC	TGTATCATTT	GTGGCAAGAA	GCGCTTAGAG	GATTATTATG	AAATCAAGAG	240
TAAAGGAAAC	GAGTATGGAT	AAAATTGTGG	TTCAAGGTGG	CGATAATCGT	CTGGTAGGAA	300
GCGTGACGAT	CGAGGGAGCA	AAAAATGCAG	TCTTACCCTT	GTTGGCAGCG	ACTATTCTAG	360
CAAGTGAAGG	AAAGACCGTC	TTGCAGAATG	TTCCGATTTT	GTCGGATGTC	TTTATTATGA	420
ATCAGGTAGT	TGGTGGTTTG	AATGCCAAGG	TTGACTTTGA	TGAGGAAGCT	CATCTTGTCA	480
AGGTGGATGC	TACTGGCGAC	ATCACTGAGG	AAGCCCCTTA	CAAGTATGTC	AGCAAGATGC	540
GCGCCTCCAT	CGTTGTATTA	GGGCCAATCC	TTGCCCGTGT	GGGTCATGCC	AAGGTATCCA	600
TGCCAGGTGG	TTGTACGATT	GGTAGCCGTC	CTATTGATCT	TCATTTGAAA	GGTCTGGAAG	660
CTATGGGGGT	TAAGATTAGT	CAGACAGCTG	GTTACATCGA	AGCCAAGGCA	GAACGCTTGC	<b>7</b> 20
ATGGTGCTCA	TATCTATATG	GACTTTCCAA	GTGTTGGTGC	AACGCAGAAC	TTGATGATGG	780
CAGCGACTCT	GGCTGATGGG	GTGACAGTGA	TTGAGAATGC	TGCGCGTGAG	CCTGAGATTG	840
TTGACTTAGC	CATTCTCCTT	AATGAAATGG	GAGCCAAGGT	CAAAGGTGCT	GGTACAGAGA	900
CTATAACCAT	TACTGGTGTT	GAGAAACTTC	ATGGTACGAC	TCACAATGTA	GTCCAAGACC	960
GTATCGAAGC	AGGAACCTTT	ATGGTAGCTG	CTGCCATGAC	TGGTGGTGAT	GTCTTGATTC	1020
GAGACGCTGT	CTGGGAGCAC	AACCGTCCCT	TGATTGCCAA	GTTACTTGAA	ATGGGTGTTG	1080
AAGTAATTGA	AGAAGACGAA	GGAATTCGTG	TTCGTTCTCA	ACTAGAAAAT	CTAAAAGCTG	1140
TTCATGTGAA	AACCTTGCCC	CACCCAGGAT	TTCCAACAGA	TATGCAGGCT	CAATTTACAG	1200

			766			
CCTTGATGAC	AGTTGCAAAA	GGCGAATCAA		GACAGTTTTC	GAAAATCGTT	1260
TCCAACACCT	AGAAGAGATG	CGCCGCATGG	GCTTGCATTC	TGAGATTATC	CGTGATACAG	1320
CTCGTATTGT	TGGTGGACAG	CCTTTGCAGG	GAGCAGAAGT	TCTTTCAACT	GACCTTCGTG	1380
CCAGTGCGGC	CTTGATTTTG	ACAGGTTTGG	TAGCACAGGG	AGAAACTGTG	GTCGGTAAAT	1440
TGGTTCACTT	GGATAGAGGT	TACTACGGTT	TCCATGAGAA	GTTGGCGCAG	CTAGGTGCTA	1500
AGATTCAGCG	GATTGAGGCA	AGTGATGAAG	ATGAATAAGA	AATCAAGCTA	CGTAGTCAAG	1560
CGTTTACTTT	TAGTCATCAT	AGTACTGATT	TTAGGTACTC	TGGCTCTAGG	AATCGGTTTA	1620
ATGGTAGGTT	ATGGAATCTT	GGGCAAGGGT	CAAGATCCAT	GGGCTATCCT	GTCTCCAGCA	1680
AAATGGCAGG	AATTGATTCA	TAAATTTACA	GGAAATTAGG	CTGGAGAACC	AGCCTTTTTC	1740
TAAAGATAAG	GAGAAATATG	ААСАААААА	CAAGACAGAC	ACTAATCGGA	CTGCTAGTGT	1800
TATTGCTTTT	GTCTACAGGG	AGCTATTATA	TCAAGCAGAT	GCCGTCGGCA	CCTAATAGTC	1860
CCAAAACCAA	TCTTAGTCAG	AAAAAACAAG	CGTCTGAAGC	TCCTAGTCAA	GCATTGGCAG	1920
AGAGTGTCTT	AACAGACGCA	GTCAAGAGTC	AAATAAAGGG	GAGTCTGGAG	TGGAATGGCT	1980
CAGGTGCTTT	TATCGTCAAT	GGTAATAAAA	CAAATCTAGA	TGCCAAGGTT	TCAAGTAAGC	2040
CCTACGCTGA	CAATAAAACA	AAGACAGTGG	GCAAGGAAAC	TGTTCCAACC	GTAGCTAATG	2100
CCCTCTTGTC	TAAGGCCACT	CGTCAGTACA	AGAATCGTAA	AGAAACTGGG	AATGGTTCAA	2160
CTTCTTGGAC	TCCTCCAGGT	TGGCATCAGG	TCAAGAATCT	AAAGGGCTCT	TATACCCATG	2220
CAGTCGATAG	AGGTCATTTG	TTAGGCTATG	CCTTAATCGG	TGGTTTGGAT	GGTTTTGATG	2280
CCTCAACAAG	CAATCCTAAA	AACATTGCTG	TTCAGACAGC	CTGGGCAAAT	CAGGCACAAG	2340
CCGAGTATTC	GACTGGTCAA	AACTACTATG	AAAGCAAGGT	GCGTAAAGCC	TTGGACCAAA	2400
ACAAGCGTGT	CCGTTACCGT	GTAACCCTTT	ACTACGCTTC	AAACGAGGAT	TTAGTTCCCT	2460
CAGCTTCACA	GATTGAAGCC	AAGTCTTCGG	ATGGAGAATT	GGAATTCAAT	GTTCTAGTTC	2520
CCAATGTTCA	AAAGGGACTT	CAACTGGATT	ACCGAACTGG	AGAAGTAACT	GTAACTCA.GT	2580
AAAAGATACG	CCTACACTCC	TATGTCACTT	ATGGATGTAG	GAGTTCTTTT	TACTAGTTTA	2640
AGCAGGACTA	AGACAGGTAC	TAAGACAAAA	TAGCAACTTC	TAAAACTAAC	TTCCAGTTTT	2700
GGGAGAGAGA	TGGAAGTTAC	TTTGAGA				2727

## (2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5717 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

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# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

TTTTTTGTAG	ATTTAAGTGG	GGTGCAATTC	СТААААААТА	AAAAACAATT	TTTGAAAATT	60
ATGTTAGCAG	GAATTGCTTC	AAATTCGATT	TTATCACTTA	CAGGTTTACT	TGTTTTATTG	120
TTCACATCGT	ATAAATTGCT	TGGACTCTTA	TTTTTTATCA	TTAACTTAGG	TATGATTTTT	180
ATTAATTCAA	TTCCTTTTTT	TCAGTATGAT	AGTGGTATTA	TTTTAAGATA	CTTGAATTCT	240
AACAATAATA	ACTTGAATTT	тсаататата	GTTCAACTTT	TAATAGCATT	TGTTATTATT	300
TATTTTCCTT	TGAGTCAACT	ATTACAGTTT	TTGACACCCA	ATATTATTGT	TCGTAGTATA	360
GGAGGGGTGG	TTGTTTCTAT	ACTGCTTTCT	ATATTATATA	TGATAGGAAG	GACGAAATAT	420
GTTCTACGTA	AATAGTTATG	TTTTTGCTTA	TAAAAAAGAA	GGTATAATGT	ATTTACGTGG	480
TCGGAGTATG	CGGGAAATAG	CTATAGAACC	TCAAATTTCG	CAAGAATTTA	TCAACGATCT	540
ATTTAATAGT	TGTAAGGAAC	TATTAGAGAT	AGAAGAAGTA	TTAGGCAGTA	AACTAACATT	600
TGAACTATAA	ATGAACAAAT	TTTAATTTCG	GATGAGATAG	ATATTGATAG	TAGATATTCT	660
AGAACTAAAG	GTTACTATTC	GTTATTTTAT	AATGAAGAGT	АТААТААААТ	ACAGAATAAA	720
ACAGTATTAG	TATTAGGAGC	AGGAGTCTTA	GGATGTTATA	TATCTCTAAG	TCTAAGTATG	780
TATGGAGTGA	GGAAACTTAT	TGTCGCTGAT	TACGATATAA	TAGAACCATC	AAATTTAAAT	840
AGGCAAATTC	TTTATACAGA	GTCGGATGTT	GGTAAGGAGA	AGATTAATGT	TCTTTCTGAA	900
AAAATACACA	AGTATAATTC	AGATGTTCAG	GTAGTACCTA	TTTCTATTAA	AGTTTCTTCA	960
GTAGAAGAAT	TAGAAAAAAT	TGTTGCGGAA	TATGGGAGTA	TAGATTTTAT	CGTTAAAGCA	1020
ATTGATACGC	CCATTGATAT	ТАТАААААТТ	GTCAATCAAT	TTGCTGTATC	GCATAAGATA	1080
TCCTACATAT	CAGGAGGGTT	TAATGGATGC	TATCTTATTA	TTGATAATAT	ATATATCCCT	1140
ACCATCGGTT	CTTGCTTTGG	TTGTCGGAAT	ATAAACAAAG	АТАТАААТАА	GTACACTTTA	1200
TCTGATAAGA	CAAAGTGGCC	GACTACACCA	GAGATGCCTG	CTATTTTGGG	AGGGATAATG	1260
ACTAATTTAA	TAAATTAAAT	ATTTCTGGGA	TGTTATAATG	AAATCCTAAT	AGATAACGCT	1320
TACGTTTATA	ATATGAGAAA	TCATGCTCTA	AGTCAAGAAA	AATATGTTCT	GGAAAACGGA	1380
GAATGTCCAA	TTTGTAAAAA	AATAATAAAG	TGAAAGATAA	CAATATTAGA	GCGAAAACAT	1440
TTATTCGTTC	AGTTTGTTTT	TGCTTATTAT	CAGGAGGAGT	AGCTTTTTTA	TCTGCTATTG	1500
GGCAGTTCAC	TGTTATAGAA	ACACAATTAA	TAGTATTGTT	CTTGGGTATT	ATTTTTGCTA	1560
TATATTATGC	TTACTACAAT	AAAAATATTC	AAACATCATT	GGAAAATATA	GTATGGCTTT	1620

768 TTTCATCGTT TGAGATTTTA TTTTTGCTTG TTAATTTTAG AACATTTATT CAGTTACCAG 1680 TGGATATTTT TATTGGTATG ATAATATTTT TAATGCTGTG GATATTTATT ATGTTAGGTA 1740 TAGTGTGTCT TAGTTATTAT ATAACTTTAT TATTTAGCAA GGAGGCTTAG TATGTTTAAA 1800 AAAATAGGTA TAATGAGCAT TTGCATATAT ATAATTATTT TATACTGCTT GAGAATGTAT 1860 CGTATTATCA ATAATATTGA AACAATCTTG CTAACGGTTA TATGCTTAAT GTTATTGTTT 1920 TTTTTAAGAC GTTTATTTGA TAAAGATAAG TAAATAGATG TTAAGTAAAA ATGTAGAATA 1980 TAAAGGAGGT GCAATGAGTA TGATTGAAGT TAGCCATTTA TCAAAAAGTT TTGGTGATAA 2040 AATAGCTTTA AATAATATAA GCTTCACTGT TAAAGAAGGT TAGATTTTTG GATTTTTAGA 2100 ACCATCTGGT TCTGGAAAGA CCACAACGAT TAATATTCTG ACTGGGCAGT TCCTTGCCGA 2160 TAAAGGACAA TCTATTATTT TGGGACAAAA ATCTCAAAAT TTAACAAGCG GTGAATTAAA 2220 GAGAATTGGA TTGGTTAGCG ATACAAGTGG ATTTTATGAG AAAATGTCTC TGTATAACAA 2280 TCTTCTTTTT TATAGTAAAT TTTATAATAT TAGTAAATCA CGTGTTGATA ATTTGTTAAA 2340 GCGAGTAGGA TTATATGATA GTCGCAAGAT GGTAGCAGGA AAATTATCCA CTGGAATGAG 2400 GCAACGAATG CTTTTAGCAC GAGCTCTTAT CAACAACCCC GCTGTACTCT TTCTGGATGA 2460 ACCGACCTCA GGTCTAGATC CCACAACTTC TCGAACAATT CATGAGTTAA TTTTAGAATT 2520 GAAAACAGCA GGGACAACGA TTTTTCTAAC GACTCATGAT ATGAATGAAG CAACTCTTTT 2580 ATGTGATTAT GTTGCCTTAT TAAATAAAGG GAAATTAGTT GAGCAAGGAG CTCCTTCTGA 2640 ACTCATTCAA AGATATAATA AAGATAAAAA GATTAAGGTT ACAGATTATA ATGGGAATCA 2700 GATAACTTTT GATTTTACAT CACTAGAACA GGTATCTCAG ACTGATCTGG AAAATATTTT 2760 TTCAATTCAT TCATGTGAGC CTACTTTAGA AGATATTTTT ATCACATTAA CAGGAGGAAA 2820 GCTAAATGCT TAAACGGTTT CTGGCTTTGG TATGGTTGCG TTGTCAAATC ATCCTTTCCA 2880 ATAAGAGTAT TTTATTGCAA GTTTTAGTGC CTTTTGCTTT CACATATTTT TATAAATATC 2940 TTATGGAAAC ACAGGGGAAG GTCAACGATC AACAGGCATT AGTTCTTTTG ATGATGTGTT 3000 TACCTTTTC TTTTTCTTTG GCTGTTGGAA GTCCTATAAC TATTATCTTG TCTGAAGAAA 3060 AAGAAAAGTA CAATTTACAA ACTCTTCTGT TGAGTGGTGT TAAAGGCTCC GAATACATTT 3120 TATCAACTAT GTTTCTCCT TTTTTGCTAA CTTTTGTGAT TATGGGAACT ACTCCTCTTA 3180 TTTTAGGAGT TACAATTGTA CATACTTTTA ATTATATTAC AATCGTTCTT CTAACCTCTT 3240 TATCCATCAT TTTATTCTAT TTATTGATAG GTTTAACCGC GAAGAGCCAA GTAGTAGCTC 3300 AGGTTATCAG TCTTCCTGCT ATGATTTTAG TTGCTTTCTT ACCGATGCTA TCTGGTTTGG 3360 ATAAGACAGT TGCGAAGATA ACAGATTATA GTTTTATGGG ACTATTTACT AAGTTTTTCA 3420

CAAAATGGGA	GGAATTTTCA	TGGAATAAAA	CTCTAATTCC	TAATCTAACA	CTACTTATTT	3480
GGATTGTTCT	TCTATTAACT	TTAATTACGA	TAACTATTAG	GAAAAGAAA	ATTTCTTAAT	3540
TGAGTTATTT	TAATGATTAT	AAACACAAGT	GGGAAGGAAA	AAATGAACTG	ATCTTTTTGA	3600
CAGCAATTCT	ACAGAATAGT	CTTATTGCTA	TATTTTGATT	TGAGTGTACG	AAAAAAGAAA	3660
AATAACAATA	GTGCTCATAC	TAATTGCAGA	AGTTTTGGGT	GATAAGATAA	CTGATAAATT	3720
GCAATAAAAA	ATGCAACATT	TTTAAATCTC	CTCTATAAGT	GCTTCAAAAA	GTGCTTCAAA	3780
ACCTGTCTTG	TAATCCAAGT	ATTTTTGGGG	ACGGTGATTA	ATAAGCTAGC	AAAGCATCAT	3840
TAAGGATTTT	TTCGGTAATT	GTTGCCAAAT	CGGTTTAAGA	AAATACTCAC	GAAGAAGTCC	3900
ATTCGCATTC	TCATTACTTC	CCCTTTGCCA	AGATGAATAG	GCATCCGCAA	AATAAAACAG	3960
AATTCCCATT	TGTTCAATTA	AAGGGTAACA	AGCAAACTCT	TTTTCTCTGT	CCGAAGTGAA	4020
AGTCTTTAAC	TATTCTTTTG	GAAAGAGTCT	TGTGAGGTGT	TCAATAGCAG	TCAACATGGA	4080
TTTAGCTGTT	TTTACTTGAC	AAGTGCTAGT	AGAAATAATA	GAATAGTAAA	AAACCTTTAA	4140
AGCAGTCCAG	AGAGGCAGCT	AAGGTTAGAC	GGTGAAAGGG	TGGAGACTAC	CCATTTTTCG	4200
TGGAACCTTG	CTGTTGGCAG	GTTCCTTTTT	TCGTGGCTTC	TGTTGGCCAG	ACTCTCTCAC	4260
TAGTAAAGGT	AAAAGGAGAA	ACCTATGCGA	GAACATCGTC	CAATCATTGC	TCTTGATTTT	4320
CCTAGTTTTG	AGGCGGTCAA	GGAATTTTTA	GCTCTTTTCC	CAGCAGAAGA	AAGCCTTTAT	4380
CTCAAGGTAG	GGATGGAGCT	TTATTACGCA	GCGGGGCCTG	AGATTGTGTC	CTACTTAAAA	4440
GGTTTGGGTC	ATAGTGTCTT	TTTGGATCTC	AAACTTCATG	ACATTCCTAA	TACAGTCAAG	4500
TCAGCCATGA	AGATCTTGTC	TCAGCTTGGT	GTCGATATGA	CTAATGTCCA	TGCGGCTGGT	4560
GGTGTAGAGA	TGATGAAGGC	GGCGCGTGAA	GGTCTTGGGA	GTCAAGCCAA	ATTGATCGCT	4620
GTAACTCAGC	TCACATCAAC	GTCAGAAGCT	CAGATGCAGG	AGTTTCAAAA	TATCCAAACC	4680
AGTCTGCAAG	AGTCTGTGAT	TCACTATGCC	AAGAAGACAG	CTGAAGCTGG	CTTGGATGGT	4740
GTTGTTTGCT	CGGCTCAGGA	AGTACAAGTC	ATCAAGCAGG	CTACCAATCC	AGATTTTATC	4800
TGTCTGACAC	CAGGGATTCG	TCCAGCTGGT	GTTGCAGTTG	GAGATCAAAA	ACGAGTCATG	4860
ACACCTGCTG	ATGCCTATCA	AATCGGCAGT	GACTATATCG	TAGTGGGACG	TCCCATTACC	4920
CAAGCTGAGG	ATCCTGTTGC	AGCTTATCAT	GCCATCAAGG	ATGAATGGAC	ACAGGACTGG	4980
AATTAAAGAA	CTAGATTAGA	AAAATAAAAG	GAGAATACCA	TGACACTTGC	TAAAGATATC	5040
GCTAGCCACC	TCTTGAAAAT	CCAAGCCGTT	TACCTCAAAC	CAGAGGAACC	CTTCACTTGG	5100
GCATCTGGTA	TCAAGTCACC	GATTTACACT	GATAATCGTG	TGACACTAGC	CTATCCAGAA	5160

			770			
ACTCGTACCC	TAATTGAAAA	TGGTTTTGTG	GAAGCTATCA	AAGAAGCCTT	TCCTGAAGTA	5220
GAAGTGATTG	CAGGAACTGC	AACAGCAGGG	ATTCCACACG	GAGCCATTAT	TGCTGATAAG	5280
ATGGACTTGC	CTTTTGCCTA	CATCCGTAGT	AAACCAAAAG	ACCACGGAGC	TGGTAATCAA	5340
ATCGAAGGTC	GCGTAGCTCA	AGGTCAAAAA	ATGGTAGTGG	TTGAAGACCT	TATTTCAACG	5400
GGTGGTTCAG	TTCTTGAAGC	TGTAGCAGCA	GCCAAGCGAG	AAGGAGCAGA	TGTACTTGGA	5460
GTTGTAGCGA	TTTTCAGCTA	CCAATTGCCA	AAAGCAGATA	AGAACTTTGC	AGATGCTGGT	5520
GTTAAACTTG	TGACGCTTTC	AAACTATAGC	GAGCTTATCC	ATCTAGCCCA	AGAAGAAGGT	5580
TACATCACGC	CAGAGGGCCT	TGATCTTCTA	AAACGCTTTA	AAGAAGACCA	AGAAAATTGG	5640
CAAGAAGGTT	AGGTCAGTAA	GATAAAGAGA	GACGAGGCTA	CCGAGTCTCT	TTTACCATTT	5700
TATTTAAAAT	ATGACAG					5717
(2) INFORMA	ATION FOR SE	EQ ID NO: 10	3:			

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5558 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

CCTGGACTTT CTAAAATGAA	ATCTTGCGAC	CTGGATCAAG	CCCTTCATGA	GCATTTTTCA	60
GAAGAAGAAT TAGCTGGTCA	CTTTCATGTC	CTTCTATGGA	CTTTTTTTAC	AATGGCATTG	120
CTATCACACC CAATACCTAT	CTAAGCGCCT	GGTTCGTAAA	CTTTATTGCA	GCTCTTCCTC	180
TAAATTTCCT AATTGTTGAA	CCAATTGCCC	GTTTTATACT	AAGTTCTTTT	CAGAAACCAT	240
TTACTGGGGA AGAAGTTGAA	GATTTTCAAG	ATGATGATGA	AATCCCAACT	ATTATCTAAG	300
CCAGTTCTGT AAACTACTAA	TATTTGAAAT	CCACTTCCTT	TTAGGGTGCA	ATGGTTATAA	360
ATGAATTTTT GAGAGGATCA	GAATGAAAA	ACTAGCAACC	CTTCTTTTAC	TGTCTACTGT	420
AGCCCTAGCT GGGTGTAGCA	GCGTCCAACG	CAGTCTGCGT	GGTGATGATT	ATGTTGATTC	480
CAGTCTTGCT GCTGAAGAAA	GTTCCAAAGT	AGCTGCCCAA	TCTGCCAAGG	AGTTAAACGA	540
TGCTTTAACA AACGAAAACG	CCAATTTCCC	ACAACTATCT	AAGGAAGTTG	CTGAAGATGA	600
AGCCGAAGTG ATTTTCCACA	CAAGCCAAGG	TGATATTCGC	ATTAAACTCT	TCCCTAAACT	660
CGCTCCTCTA GCGGTTGAAA	ATTTCCTCAC	TCACGCCAAA	GAAGGCTACT	ATAACGGTAT	720
TACCTTCCAC CGTGTCATCG	ATGGCTTTAT	GGTCCAAACT	GGAGATCCAA	AAGGGGACGG	780
TACAGGTGGT CAGTCCATCT	GGCATGACAA	GGATAAGACT	AAAGACAAAG	GAACTGGTTT	840

CAAGAACGAG	ATTACTCCTT	ATTTGTATAA	CATCCGTGGT	GCTCTTGCTA	TGGCTAATAC	900
TGGTCAACCA	AACACCAATG	GCAGCCAGTT	CTTCATCAAC	CAAAACTCTA	CAGATACCTC	960
TTCTAAACTC	CCTACAAGCA	AGTATCCACA	GAAAATTATT	GAAGCCTACA	AAGAAGGTGG	1020
AAACCCTAGT	CTAGATGGCA	AACACCCAGT	CTTTGGTCAA	GTGATTGACG	GTATGGATGT	1080
TGTGGATAAG	ATTGCTAAGG	CCGAAAAAGA	TGAAAAAGAC	AAGCCAACTA	CTGCTATCAC	1140
AATCGACAGC	ATCGAAGTGG	TGAAAGACTA	CGATTTTAAA	TCTTAAAAAC	СААААААТА	1200
CAGTATCCAC	ATTCGGTACT	GTATTTCTTT	TACTCTCATT	CTTAAGTTAA	ATTATTAAAA	1260
TCCCATATTT	GGTCTATCCA	GCCTTCATAA	AAGTCTGGCT	CGTGGCAGAC	CATAAGGATA	1320
GATCCCCTAT	ATTCTTTGAG	AGCGCGTTTG	AGCTCATCCT	TTGCATCCAC	ATCCAAATGG	1380
TTGGTCGGCT	CGTCCAGCAC	TAAAACGTTG	TTTTCACGAT	TCATCAAGAG	ACAGAAACGA	1440
ACCTTGGCTT	GCTCTCCCCC	TGATAATACT	TGAATCTGGC	TTTCAATATG	TTTGGTTGTC	1500
AAACCACAAC	GGGCAAGGGC	TGCACGGACT	TCTGCTTGAT	TAAGGCAGG	AAAGGCATTC	1560
CAGACAGCTT	CAAGAGGAGT	TTGGCGATTA	CCGCCTTCTA	CTTCCTGCTC	AAAATAACCA	1620
AGTTCTAAAT	AATCTCCACG	CTCCACTTCC	CCAGCGATTG	GCGAGATAAT	GCCCAAGAGA	1680
CTCTTCAAGA	GAGTTGTTTT	TCCAATACCA	TTAGCACCAA	TAATCGCAAC	CTTTTGATTG	1740
CGTTCGAAGG	TAAGATTTAA	AGGCTTAGTA	AGAGGACGGT	CGTAACCAAT	TTGCAAGTTC	1800
TTGGCTTGGA	AGATAAAGCG	CCCTGGTGTA	CGAGCTGGTT	TGAAATCAAA	GGATGGTTTT	1860
GGTTTCTCAC	TTTGGAGTTC	GATAATATCC	ATCTTATCCA	ATTTCTTTTG	ACGAGACATA	1920
GCCATATTAC	GAGTTGCAAC	ACGGGCTTTA	TTACGAGCCA	CAAAGTCCTT	GAGGTCTGCA	1980
ATCTCTTTCT	GCTGGCGTTC	GTAGGCTGCC	TCTAGCTGAG	ATTTCTTCAT	AGCATAAACT	2040
TCTTGGAACT	GGTAGTAGTC	ACCAGAGTAA	CGCGTCAGCT	GTTGATTTTC	CACATGATAG	2100
ACAATATTAA	TAACGTCATT	GAGGAATGGA	ATATCGTGCG	AAATGAGAAC	AAAGGCATTC	2160
TCATAGTTTT	GGAGATAGCG	CTTGAGCCAA	TCAATATGCT	CAGCATCCAA	GTAGTTGGTC	2220
GGCTCGTCCA	ACAGCAAGAT	ATCAGGCTTT	TCAAGGAGAA	GTTTTGCCAA	AAGCACCTTG	2280
GTTCTTTGCC	CACCTGACAA	AGAAGTTACA	TCCGTATCCA	TGCCAAAGTC	CATAACACCA	2340
AGAGCACGCG	CTACTTCGTC	AATCTTAGCA	TCCAAGGTAT	AGAAATCACG	ACTCTCCAGA	2400
CGGTCTTGAA	GTTCTCCTAC	TTCTTCCATG	AGAGCATCAA	CATCCGCGCC	GTCTTCAGCC	2460
ATTTTCATAT	AGAGGTCATT	GATACGAGCT	TCAGCTTTGA	AAAGCTCATC	AAAAGCCGTA	2520
CGGAGAACAT	CACGCACCGA	CTGTCTTTCA	GCAAGGACAG	AGTGCTGATC	CAAGTAACCA	2580

772 GCCGTCACAT ATTTGGACCA CTCAACCTTT CCTTCATCTG GCAGCATTTT ACCAGTCACG 2640 ATACTCATAA AGGTTGATTT TCCTTCACCA TTGGCACCGA CCAGGCCGAT ATGTTCTCCC 2700 TTGAGGAGAC GGAAGGACAC ATCTTCAAAA ATTGCACGGT CACCAAAACC GTGACTCAGA 2760 TTTTTAACTT CTAAAATACT CATTTTAATT CCTTACCTTG TTTTTATGTA ATCGTTTATA 2820 AAGGAGCCAA GCCAGATAGC CACCCAAAGT GTTGGTCCAC AAATCATCAA TCTCAAAGAC 2880 GCGATTGAAA TCAAAGAAAA AGTCCAAGAT TAATTGCGTA CACTCGATTC CAAGACTCAC 2940 AAGAAAACTA AAAAGAAGGA CCTTTTTTGT TTTCCGCAAA TTTGGAAATA GATAAAGGAG 3000 TTGGAAAATC AGAGGAAAAA ACAAGAAGAC ATTGAGGATA TTTTGTAAAA AAATCCAACA 3060 TAATTGTCCA ATGTCACTCA CTTCGCCCAG TTTCCAGAGA GAATTGAAAG GAGTCAAAAG 3120 AAAAACCAGG CGTCCAAGAT GCTGAATACC TGGAGTTCCC ACTCCCACGG TAGATTGTTC 3180 TTGAGGAGTA AAGCAAAAAC AGACAATGCA AATGCTATAG AAAATGACTC CCCAGACCAA 3240 AATATGATTA TAAGTCTTCT TCATCATTAA GGATTTACCG CTGCGACTGC CTTCTGGCGG 3300 TCACGTTTCA TTGTGTTAGA GCGCAATTGT CCACAAGCTG CGTCAATATC TGTACCATGC 3360 TCTTGACGAA CCACACAGTT GACCCCTTTT TTCTTAAGCG TATCATAGAA AGCCAACACG 3420 CACTCTTTGG GACTACGGCT ATATTGGTCA TGCTCACTAA CTGGGTTATA AGGAATCAAG 3480 TTTACATAAG ACAATTTCTT GATGTTCTTG AGCAATTCAG TCAATTCCAA GGCTTGTTCT 3540 ACACCGTCGT TGACTTCATT AAGCATGATA TATTCAAAGG TTACACGACG GTTTGTTGTC 3600 TCAATGTAGT ATTCAATAGC AGCAAAGAGT TTTTCAATCG GAAAGGCACG GTTAATCTTC 3660 ATGATACTTG AACGAAGTTC ATTGTTAGGT GCGTGAAGAG ACACGGCAAG ATTGACCTGA 3720 ACCCCTTCAT CAGCAAAGTC ACGAATTTTA TGAGCCAAAC CTGAGGTTGA AACCGTGATG 3780 TGACGAGCAC CGATAGCCAT TCCTTTATCA TCATTGATAG TACGAAAGAA ATTCAAGACA 3840 TTGTTGTAAT TATCAAAGGG CTCACCGATT CCCATGACAA CGATATGGCT GATGCGTTCA 3900 TCCTGACCAC GCTCATCAAA GTATTTCTGA ACCAGCATGA TTTGCGCTAC GATTTCACCG 3960 TTATTGAGGT CACGTTGCTT CTTAATCAAA CCAGAGGCAC AGAAGGTACA ACCGATATTA 4020 CAGCCGACCT GAGTGGTCAC ACAGACAGAT AAACCATAGT GTTGACGCAT GAGTACAGTC 4080 TCAATTAACA TACCGTCGGG CAATTCAAAG AGATATTTGA CTGTACCATC AGCAGACTCT 4140 TGCACAATAC GTTGTTTCAA GGGATTGACC ACAAACTGGT CATTGAGCTT AGCAATCAAA 4200 TCCTTGGAAA GGTTGGTCAT TTCTTCAAAT GACTGCACAC GTTTACGGTA GAGCCATTCC 4260 CAGATTTGAT CTGCACGGAA TTTCTTTTCT CCCTGCTCCA ATACCCATTC CTGCATGGTT 4320 TGATGTACCA AACTATGAAT TGAGGGTTTC ATTTCTTCTC CTTATTCTCT ACTCACTTCT 4380

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GACGAATGAC	AAAATGACGT	TGTCCCTTGT	CGTCTTTCTG	ACGACGTCTA	TTTTTCTTAT	4440
CTGCATTCGA	CTTTCGTTTA	GTTTGAGTCG	GTTTCTTTCC	TTTTCTAGAA	GGTGTTTCTT	4500
CTTCCGTCTT	ACGCATTTTC	TTGTCAAATG	ATGCTCGCTT	AGGGGCTTCA	TTTTCTAAGA	4560
CAAAATAGGC	ACAACCATAA	CTACAATACT	CTAAAAGGTA	GTCTTGTAAA	CGACTGATTT	4620
TTTCAAGTTT	TTCTTCTGTT	CGGTCATCCT	TGTAAAAACC	TCGTAGGCGA	AGCTGTTCGT	4680
TGCTCCAGTC	CCCCACGATA	TAATCAAACT	TGGTTAATAC	TTCTGAAAAA	CGCTGATTAA	4740
AAGTCGTCAC	ATCAAAGGCA	TCCTTGATAT	TTTCAACCAA	GGAAAAAGCT	ATCCCTTCCG	4800
TTTCGACCTT	GTCCCCGTGT	AAATGGAACT	CCGGACCAGG	AAACTTGTTA	TAGTTGTATA	4860
ATTCAGGTGC	AATTTCTTTT	CGCATAGATA	TCCTTTTTTC	ACGATTACTT	AATACTTTAT	4920
TCTACCATAA	TTTCTAGCAG	TTAGCACGTT	TCTCATAAAA	ATGAAAAAAG	TCTGACGATT	4980
TTGTCAGACC	AGAATCTTAT	AACCTAAAAA	GAGAAGAACA	ATTCTTCCCT	CCAACTATCA	5040
PTATTTAGCA	GCTGCGTACA	ATTCATCTAC	TTTATTCCAG	TTGATTACTG	AAAAGAAAGC	5100
TTTGATGTAG	TCAGGACGCA	CGTTGCGGTA	TTTCACGTAG	TAAGCATGTT	CCCAAACGTC	5160
CAAGCCCAAG	ATTGGTTTTT	TACCTTCTGA	GATTGGTGTG	TCTTGGTTTG	CTGTTGAAGT	5220
CACTTCAAGT	TTCCCTTCTT	TGTTGACAAC	CAACCATGCC	CAACCTGAAC	CAAAACGAGT	5280
PGTTGCTGCT	GCAGTGAAGG	CTGCTTGGAA	TTCTTCAAAT	GAACCAAATG	TTGCATCGAT	5340
FGCTGCTGCC	AGTTCTGCTG	AAGGAGCTGT	TTTCTCGGGA	GTCATCAATT	CCCAGAAAAG	5400
AGCGTGGTTC	AAGTGTCCGC	CACCATTGTT	GATAAGTGCT	TGACGGATAT	CAGCTGGGAT	5460
AGATTCTACA	TCAGCAAGCA	AGGCTTCAAG	GTCTTCACCG	ATTTCAGGGT	GTTTTTCTAA	5520
AGCTGCATTG	GCATTGTTGA	CATAAGTTTG	ATGGTGTT			5558

# (2) INFORMATION FOR SEQ ID NO: 104:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6735 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

GGAATTGTAA	ATATCATATT	GTTTTTGCAC	CCAAATATCG	TCGTCAAATC	ATTTATGGCA	60
GATACAAAGC	TAGTATCGGA	AGAATCATAC	GTGACTTATG	TGAGCGTAAG	GGTGTAATAA	120
TCCATGAAGC	GAATGCTTGT	TCAGACCATA	TTCACATGCT	TATCAGTATT	CCTCCGAAAC	180

			774			
TTAGTGTTTC	GTCCTTTATG	GGCTATTTAA	AGGGCAAGAG	CAGTTTGATG	ATTTTTGATA	240
AGCATGCGAA	TTTAAAATAC	AAATATGGCA	ATCGCAAGTT	TTGGTGTAGA	GGCTATTATG	300
TAGATACGGT	AGGCCGTAAT	CAGAAAGTGA	TAGCTGAATA	TATTCAGAAT	CAATTACAAG	360
AAGACAGAGT	AGCAGACCAG	CTCACGTTAT	TCGAGTCAGT	AGATCCGTTT	ACTGGCGAAA	420
TAAATAAGAG	GAAGTAACTA	AGGTGCTTTA	GCACCTGCTC	GGGAAAGTGG	TGCGCGAGGA	480
AGCTATTTCG	GTGGGCCTTT	GGCCCTGGCC	GGTAGAAGCG	GCTTATAGCC	GCAGAACAAA	540
CCACCAGTTC	ACACTGGTGG	TTTTGATTTA	AAAAACTTGA	TACATAAAAA	TAAAAGTCTA	600
TATAAAGGAT	GGTAAAATTC	CTGTTGTCCG	ATTTGGACAA	TATCCTAAAT	AGTTACAATA	660
TATGGTCTAT	ACTTTTTCTT	AGGAGAAAGC	TAGATGTACA	GACGTTTGAG	AGATTTGAGG	720
GAGGATCATG	ATCTGCCCCA	AAAGCAAATA	GCTACAATAC	TTTCGTTTAC	AAATTCAGCT	780
TATGCCAAAA	TTGAACGGGG	TGAGCATGCG	TTGACGGCTG	ATGTATTGGT	TAAACTCTCA	840
GATTTCTATG	ACGTCAGTAC	AGACTATTTA	TTGGGATTAA	CTGATTTTCC	TGATAAAATT	900
CGCTTTAGAA	AATAATCTCC	TCAATTTCAT	AGAGTTTGAA	AATGAGTGAG	ATTTTTTATT	960
IGCCCTTTGA	CAACTGAATA	GCCTAAAATG	GTACTTTCCT	CATTTGTGGA	GCAAATTTGA	1020
ATGGCTCGCC	ATGATAAGAG	CGATTTTAAA	ATCATCAATA	AAATAGAGCG	ATACTTTATA	1080
rgccatgata	CAAATGATAT	ACAATGATAC	TTCTGACCGT	TCAGCCTGCC	AACGTAAAAG	1140
AGCAGCAAGT	GAAATTCTTA	TGATGACTTC	ATCAGTCATG	CCACGTTGAA	TGTGTGAGTT	1200
TGTTAGATAA	ACGCAATTAA	TCCTCAAAAG	GTTCCCCGAA	CCTTTTGAGT	TCTACAGACG	1260
CATCACGTGG	AGTGTGTAAG	CTTGTTGCTA	AAAGCGTAAA	AACCTTGGAA	CGAAAGGAAT	1320
AATAGACTTT	CTGCGAAACA	ТААТАТААА	ACAATAAAAC	TATGAATGAT	GAAGCAAGTA	1380
AACAATTGAG	CGATAGCCGT	TTCAAGATCC	TTGTAGGTGT	TCAGCGCACG	ACTTTTGAAG	1440
AGATGTTAGC	TGTGTTAAAA	ACAGCTTATC	AACGTAAACG	CGCAAAAGGT	GGACGAAAAA	1500
GCAAATTAAG	CCTAGACGAT	CTCCTTATGG	TAACTATTCA	ATACATGCGA	GAATAGAGC.A	1560
CTTATGAACA	AATTGCGGCT	GATTTTGGCA	TTCACGAAAG	CAACTTAATC	CGTCGGAGTC	1.620
AATGGGTTGA	AGCAACTCTT	ATTCAAAATG	GTTTTACGAT	TTCAAATTCT	GCCTTAATTC	1680
rgtaaaaaca	GTAAAATTCG	AAGGATTGTA	AGGTAAGAGT	TTTTTTCTTT	CTGAAAAAAT	1740
GTATAATAG	CAATCAAAAC	TAGAAAATAA	AACGGAATTT	GGAACAGATT	TGTCTGTATC	1800
CTAGTAGAGT	GGTGATACTA	TGAAGATTAG	TAAGAGGCAC	TTATTAAATT	ATTCCATCTT	1860
GATTCCCTAC	TTGCTTTTAT	CTATTTTGGG	CTTGATTGTG	GTCTATTCGA	CCACCAGTGC	1920
TTAATTTTAT	GAAGAAGGCA	AGAGCGCCTT	GCAGTTGGTT	CGAAACCAAG	GAATCTTTTG	1980

GATTGTTAGT	TTGATACTGA	TTGCCTTAAT	TTATAAATTG	AGACTAGATT	TTTTGAGAAA	2040
TGAGCGACTA	ATCATTTTAG	ТТАТАТТААТ	AGAAATGCTT	TTATTGTTCT	TGGCTCGTTT	2100
TATTGGTATT	TCCGTAAACG	GGGCATACGG	TTGGATTTCG	GTTGCAGGAA	TAACTATTCA	2160
GCCAGCTGAG	TACTTAAAAA	TCATTATTAT	TTGGTATTTA	GCTCACCGAT	TCTCCAAACA	2220
GCAAGAAGAA	ATAGCTACTT	ATGATTTTCA	AGTTTTGACT	СААААТСААТ	GGCTTCCCCG	2280
TGCTTTTAAT	GATTGGCGAT	TCGTTCTCCT	AGTTCTGATT	GGAAGTTTGG	GAATTTTCCC	2340
TGATTTAGGA	AATGCGACTA	TTTTAGTCTT	GGTTTCCTTG	ATTATGTATA	CAGTTAGTGG	2400
AATCGCTTAT	CGCTGGTTTT	CAACCATTCT	GGCGCTCGTA	TCTGCCGCTT	CTGTCTTTGT	2460
CTTGACCACT	ATCAGCCTAA	TCGGTGTTGA	GACCTTTTCA	AAAATTCCAG	TATTCGGCTA	2520
TGTAGCCAAG	CGCTTTAGTG	CCTTTTTTAA	TCCTTTTGCC	GATCGTGCTG	ATGCAGGTCA	2580
CCAGTTAGCT	AATTCTTATT	TTGCCATGGT	CAATGGCGGT	TGGTTTGGTC	TAGGTCTTGG	2640
AAACTCGATT	GAAAAACGAG	GTTATTTGCC	AGAAGCTCAT	ACAGACTTTG	TCTTTTCTAT	2700
CGTGATTGAA	GAATTTGGCT	TTGTTGGTGC	CAGTCTTATT	TTAGCTCTCT	TGTTTTTCAT	2760
GATTTTGCGG	ATTATCTTGG	TCGGTATCCG	AGCGGAGAAT	CCTTTCAATG	CCATGGTTGC	2820
ACTCGGTGTC	GGAGGGATGA	TGTTGGTTCA	GGTATTTGTC	AATATCGGAG	GGATTTCGGG	2880
CTTGATTCCA	TCTACAGGAG	TGACTTTCCC	CTTCTTATCC	CAGGGTGGAA	ATAGTCTTCT	2940
AGTCTTATCA	GTGGCAGTAG	CCTTTGTCTT	AAATATTGAT	GCCAGTGAAA	AACGCGCTAA	3000
ATTGTACCGA	GAATTGGAAA	ATCAACCAAT	GAACCTTCTG	TTGAAGTAGG	ATAAAGAAAG	3060
GATAGTTTAT	GTCTCTTCAA	AAATTAGAAA	ATTATAGTAA	TAAAAGTGTT	GTGCAAGAAG	3120
AAGTCTTGAT	TCTAACAGAA	TTACTGGAAG	ATATTACTAA	AAATATGCTT	GCCCCAGAGA	3180
CCTTTGAAAA	AATAATACAG	TTGAAAGAAT	TATCAACGCA	GGAAGATTAT	CAAGGTCTAA	3240
ACCGTCTAGT	GACTAGCTTA	TCAAATGATG	AAATGGTCTA	TATTTCACGC	TATTTCTCTA	3300
TCTTGCCTCT	TTTGATTAAT	ATTTCAGAGG	ATGTGGATTT	AGCTTATGAA	ATCAATCATC	3360
ААААТААТАТ	TGATCAGGAC	TATTTAGGTA	AATTATCTAC	AACGATTAAA	TTGGTAGCAG	3420
AAAAGGAAAA	TGCCGTTGAG	ATCCTAGAAC	ACTTGAATGT	TGTCCCTGTT	TTGACAGCCC	3480
ATCCAACACA	AGTGCAACGC	AAAAGTATGT	TGGATTTAAC	AAATCATATT	CATAGTCTTT	3540
TGCGTAAATA	CCGTGATGTT	AAGTTGGGGT	TGATCAATAA	AGATAAATGG	TACAATGATT	3600
TGCGTCGTTA	CATCGAAATT	ATCATGCAGA	CAGACATGAT	TCGTGAGAAA	AAATTAAAAG	3660
TGACTAACGA	AATCACGAAT	GCTATGGAAT	ATTATAACAG	CTCCTTTTTG	AAAGCTGTAC	3720

			776			
CTCATTTGAC	GACGGAGTAT	AAGCGCTTAG	CGCAAGCGCA	TGGTCTGAAT	TTAAAACAGG	3780
CTAAACCAAT	CACCATGGGT	ATGTGGATAG	GTGGTGACCG	TGATGGAAAT	CCATTTGTTA	3840
CAGCAAAGAC	CTTGAAGCAG	TCTGCACTCA	CTCAGTGTGA	AGTCATCATG	AACTACTATG	3900
ATAAAAAGAT	TTACCAACTT	TATCGTGAAT	TTTCTCTTTC	AACTAGCATT	GTCAACGTCA	3960
GCAAGCAAGT	CAGAGAAATG	GCTCGTCAAT	CCAAGGATAA	CTCGATTTAC	CGCGAAAAAG	4020
AGCTTTACCG	TCGTGCCTTG	TTTGATATTC	AATCAAAAAT	TCAGGCAACT	AAAACCTATC	4080
TGATTGAGGA	TGAAGAAGTT	GGGACTCGTT	ATGAAACCGC	CAATGATTTC	TACAAGGATT	4140
TGATTGCCAT	TCGAGATTCT	CTACTAGAAA	ATAAGGGCGA	GTCCTTGATT	TCAGGTGATT	4200
TTGTGGAATT	ATTGCAGGCA	GTAGAGATAT	TTGGTTTTTA	CTTAGCATCA	ATTGATATGC	4260
GACAAGACTC	TAGCGTCTAT	GAAGCCTGTG	TGGCAGAACT	CTTGAAATCA	GCAGGAATTC	4320
ATTCTCGTTA	TAGCGAGTTG	AGCGAAGAAG	AAAAGTGTGA	CCTTCTCTTG	AAAGAATTAG	4380
AAGAAGATCC	CCGAATTCTT	TCTGCGACTC	ACGCAGAAAA	ATCAGAATTA	TTAGCAAAAG	4440
AATTAGCTAT	TTTTAAGACG	GCTCGTGTTT	TGAAAGATAA	GTTGGGAGAT	GATGTCATCC	4500
GTCAGACCAT	CATTTCACAT	GCAACCAGCC	TTTCTGATAT	GCTAGAATTA	GCTATTCTGT	4560
TAAAAGAAGT	AGGACTGGTG	GATACGGAAA	GGGCGCGTGT	TCAGATTGTT	CCCCTTTTTG	4620
AAACAATTGA	AGACTTGGAT	CATTCAGAGG	AAACAATGAG	AAAATATCTT	TCTCTTAGCC	4680
TTGCCAAAAA	ATGGATTGAC	TCACGAAATA	ACTACCAAGA	AATCATGCTT	GGCTACTCTG	4740
ACAGTAATAA	AGATGGCGGT	TACTTGTCAT	CATGTTGGAC	CCTCTACAAG	GCTCAACAAC	4800
AATTGACTGC	TATTGGAGAT	GAATTTGGCG	TTAAGGTTAC	CTTCTTCCAT	GGTCGTGGTG	4860
GTACTGTCGG	TCGTGGTGGT	GGGCCAACCT	ATGAAGCCAT	TACATCTCAA	CCGCTCAAGT	4920
CTATCAAGGA	TCGTATCCGC	TTGACGGAGC	AGGGTGAAGT	AATTGGGAAT	AAATACGGTA	4980
ACAAAGACGC	CGCTTACTAT	AACCTTGAAA	TGCTAGTATC	GGCAGCTATT	AACCGTATGA	5040
TTACTCAGAA	GAAGAGCGAT	ACCAATACCC	CAAATCGTTA	TGAAACCATT	ATGGATCAAG	5100
TAGTGGACCG	TAGTTACGAT	ATCTACCGTG	ATTTGGTCTT	TGGTAATGAG	CATTTCTATG	5160
ATTATTTCTT	CGAGTCAAGT	CCAATCAAGG	CTATTTCAAG	TTTAATATT	GGTTCTCGTC	5220
CAGCCGCTCG	TAAGACTATT	ACTGAAATCG	GTGGTTTGCG	TGCCATCCCT	TGGGTATTCT	5280
CATGGTCACA	GAGTCGTGTT	ATGTTCCCTG	GATGGTACGG	GGTTGGTTCA	AGCTTCAAGG	5340
AATTTATCAA	TAAAAATCCA	GAGAATATTG	CTATCTTACG	AGATATGTAC	CAAAATTGGC	5400
CTTTCTTCCA	ATCGCTTCTT	TCAAATGTTG	ATATGGTTTT	GTCAAAATCA	AATATGAATA	5460
TTGCTTTTGA	ATATGCTAAA	CTTTGTGAAG	ACGAGCAAGT	TAAGGCCATC	TATGAGACTA	5520

ATGGCAAGTT	ACTAAGAACG	TTATCTTGGC	TATTGAAGGA	CATGACGAAC	5580
CAATCCATAT	CTAAAAGCTA	GTCTGGATTA	CCGTATGCCT	TACTTTAATA	5640
TATTCAGTTG	GAGTTGATTA	AACGCCAACG	TCGTGGAGAA	TTGTCCAGTG	5700
ATTGATTCAT	ATCACCATCA	ACGGAATTGC	GACAGGATTG	CGTAATTCAG	5760
TTCAAGAGTG	AATGCTAAAA	GTGAATATCA	AAAAAATTCT	AATAGACTAT	5820
TTTAAAAATG	АТАТААТТТА	ACCATTCAGA	AAAGTAATCA	TACAAACTTT	5880
TGTGGTAGCT	GAAAACAGAT	AAGTGGCAAT	GATGAAAATT	GGGCTGAATG	5940
TTTGAAATTA	TAAAAATTCG	GTAAGCACAC	CTTACAGTGC	ATCTCGTTAT	6000
AGCGATAGGG	AAATTCCCTA	TAATTGAGGT	GGTACCGCGC	ATCGACGTCC	6060
TTTTTGTGTG	AGGATTTTTT	TGATGGAGGT	TAGTATGGAA	AGAAAACGAT	6120
GTTTAGATAA	GTGAAATATG	TTAAAGGAAA	TAAAAAGGAG	AAACAGAATG	6180
GTTTAATTGG	AATTATTGCT	GCATTAGCAG	TCTTAGTAGC	AGGAAGCTTG	6240
CAATGAATAA	ATCAGAAGCT	CAGAATAATA	AGGATGAGAA	GAAAATAACC	6300
TGCTTCAATT	TGTGAGCCAT	CCATCCCTTG	ATTTGATTTA	TAAAGGGATC	6360
TTGCAGAAGA	AGGATATAAA	GATGATCAAG	TTAAAATTGA	TTTTATGAAC	6420
ACCAAAGTAA	GGTTGCGACA	ATGAGTAAAC	AATTGGTTGC	AAATGGGAAT	6480
TTGGTATCGC	AACACCAGCA	GCCCAAGGGT	TGGCTAGTGC	AACAAAAGAC	6540
TCATGGCCGC	TATTACAGAC	CCAATTGGTG	CTAACTTGGT	TAAAGATTTG	6600
GTGGCAACGT	TACAGGGGTA	TCTGACCACA	ATCCAGCTCA	ACAACAAGTT	6660
AGGCTCTGAC	ACCGAATGTG	AAAACAATCG	GAGCTCTTTA	CTCAAGTAGC	6720
CAAAA					6735
	CAATCCATAT TATTCAGTTG ATTGATTCAT TTCAAGAGTG TTTAAAAATG TGTGGTAGCT TTTGAAATTA AGCGATAGGG TTTTTGTGTG GTTTAGATAA GTTTAATTGG CAATGAATAA TGCTTCAATT TTGCAGAAGA ACCAAAGTAA TTGGTATCGC TCATGGCCGC GTGGCCACGT	CAATCCATAT CTAAAAGCTA TATTCAGTTG GAGTTGATTA ATTGATTCAT ATCACCATCA TTCAAGAGTG AATGCTAAAA TTTAAAAATG ATATAATTTA TGTGGTAGCT GAAAAAATTCG AGCGATAGGG AAATTCCCTA TTTTGTGTG AGGATTTTT GTTTAGATAA GTGAAATATG GTTTAATTGG AATTATTGCT CAATGAATAA ATCAGAAGCT TGCTTCAATT TGTGAGCCAT TTGCAGAAGA AGGATATAAA ACCAAAGTAA GGTTGCGACA TTGGTATCGC AACACCAGCA TCATGGCCGC TATTACAGAC GTGGCAACGT TACAGGGGTA AGGCTCTGAC ACCGAATGTG	CAATCCATAT CTAAAAGCTA GTCTGGATTA TATTCAGTTG GAGTTGATTA AACGCCAACG ATTGATTCAT ATCACCATCA ACGGAATTGC TTCAAGAGTG AATGCTAAAA GTGAATATCA TTTAAAAATG ATAAAATTTA ACCATTCAGA TGTGGTAGCT GAAAACAGAT AAGTGGCAAT TTTGAAATTA TAAAAAATTCG GTAAGCACAC AGCGATAGGG AAATTCCCTA TAATTGAGGT TTTTTGTGTG AGGATTTTT TGATGGAGGT GTTTAAATAG ATCAGAAGAT TAAAAGGAAA GTTTAAATTG AATTATTGCT GCATTAGCAG CAATGAATAA ATCAGAAGCT CAGAATAATA TGCTTCAATT TGTGAGCCAT CCATCCCTTG TGCAGAAGA AGGATATAAA GATGATCAAG ACCAAAGTAA GGTTGCGACA ATGAGTAAAC TTGGTATCGC AACACCAGCA GCCCAAGGGT TCATGGCCGC TATTACAGAC CCAATTGGTG GTGGCAACGT TACAGGGGTA TCTGACCACA AGGCTCTGAC ACCGAATGTG AAAACAATCG	CAATCCATAT CTAAAAGCTA GTCTGGATTA CCGTATGCCT TATTCAGTTG GAGTTGATTA AACGCCAACG TCGTGGAGAA ATTGATTCAT ATCACCATCA ACGGAATTGC GACAGGATTG TTCAAGAGTG AATGCTAAAA GTGAATATCA AAAAAATTCT TTTAAAAAATG ATTAAATTTA ACCATTCAGA AAAGTAATCA TGTGGTAGCT GAAAACAGAT AAGTGGCAAT GATGAAAATT TTTGAAAATTA TAAAAATTCG GTAAGCACAC CTTACAGTGC AGCGATAGGG AAATTCCCTA TAATTGAGGT GGTACCGCGC TTTTTGTGTG AGGATTTTT TGATGGAGGT TAGTATGGAA GTTTAAATAG ATTATTGCT GCATTAGCAG TCTTAGTAGC CAATGAATAA ATCAGAAGCT CAGAATAATA AGGATGAGAA TGCTTCAATT TGTGAGCCAT CAGAATAATA AGGATGAGAA TGCTTCAATT TGTGAGCCAT CAGAATAATA AGGATGATTA TTGCAGAAGA AGGATATAAA GATGATCAAG TTAAAAATTGA ACCAAAGTAA GGTTGCGACA ATGAGTAAAC AATTGGTTGC TTGGTATCGC AACACCAGCA GCCCAAGGGT TGGCTAGTGC TCATGGCCGC TATTACAGAC CCAAATTGGTG CTAACTTGGT GTGGCCAACGT TACAGGGGTA TCTGACCACA ATCCAGCTCA AGGCTCTGAC ACCGAATGTG GAGCTCTTTA	ATGGCAAGTT ACTAAGAACG TTATCTTGC TATTGAAGGA CATGACGAAC CAATCCATAT CTAAAAGCTA GTCTGGATTA CCGTATGCCT TACTTTAATA TATTCAGTTG GAGTTGATTA AACGCCAACG TCGTGGAGAA TTGTCCAGTG ATTGATTCAT ATCACCATCA ACGGAATTGC GACAGGATTG CGTAATTCAG TTCAAGAGTG AATGCTAAAA GTGAATATCA AAAAAATTCT AATAGACTAT TTTAAAAAATG ATATAATTTA ACCATTCAGA AAAGAAATTC TACAAAACTTT TGTGGTAGCT GAAAACAGAT AAGTGGCAAT GATGAAAAATT GGGCTGAATG TTTGAAAATTA TAAAAATTCG GTAAGCACAC CTTACAGTGC ATCTCGTTAT AGCGATAGGG AAATTCCCTA TAATTGAGGT GGTACGCGC ATCGACGTCC TTTTTGTGTG AGGATTTTT TGATGGAGGT TAGTATGAAA AGAAAACGAT GTTTAAATTA AGGAATTTTT TGATGGAGGT TAGTATGAAA AGAAAACGAT GTTTAATTGG AATTATTGCT GCATTAGCAG TCTTAGTAGC AGGAAGCTTG CAATGAATAA ATCAGAAGCT CAGAATAATA AGGATGAGAA GAAAATAACC TGCTTCAATT TGTGAGCCAT CCATCCCTTG ATTTGATTTA TAAAGGGATC TTGCAGAAGA AGGATATAAA GATGATCAAG TTAAAAATTGA TTTTATGAAC ACCAAAAGTAA GGTTGCGACA ATGAGTAAAC AATTGGTTGC AAATGGGAAT TTGGTATCGC AACACCAGCA GCCCAAGGGT TGGCTAGTGC AACAAAAGAC TCATGGCCGC TATTACAGAC CCAATTGGTG CTAACTTGGT TAAAAATTG GTGGCAACGT TACAGGGGTA TCTGACCACA ATCCAGCTCA ACAACAAGTT AGGGCTCTGAC ACCAGAGGT TGGCTAGTGC AACAACAAGTT AGGGCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACAACAAGTT AGGGCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACAACAAGTT AGGCCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACAACAAGTT AGGCCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACAACAAGTT AGGCCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACCAACAGTT AGGCCTCTGAC ACCAGAGGT TCTGACCACA ATCCAGCTCA ACCAACAGTT AGGCCTCTGAC ACCAGAGT TACAACAACTCG GAGCTCTTTA CTCAAGTAGC CAAAAA

# (2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6516 base pairs (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

CTAGAGGATC CCAGCAGGTA AATTGGCTTC AGCTGGCAAA AAAGTTGCCC TCGTTGAACG 60 CAGCAAGGCT ATGTACGGTG GAACTTGTAT CAACATTGGT TGTATCCCAA CTAAAACCTT 120

778 GCTAGTTGCT GCTGAAAAGG ACTTGTCTTT TGAAGAAGTC ATTGCTACTA AAAACACGAT 180 CACTGGTCGC CTCAACGGTA AAAACTATGC GACTGTTGCT GGTACAGGCG TAGATATCTT 240 TGATGCGGAA GCTCACTTCC TTTCAAATAA AGTCATCGAA ATCCAAGCTG GTGATGAAAA 300 GAAAGAACTG ACTGCTGAAA CAATCGTCAT CAACACTGGT GCTGTTTCAA ACGTCTTGCC 360 AATCCCTGGA CTTGCTACAA GCAAAAACAT CTTTGACTCA ACAGGTATCC AAAGCTTGGA 420 CAAATTACCT GAAAAACTTG GAATCCTTGG TGGCGGAAAT ATCGGTCTTG AATTTGCCGG 480 CCTTTACAAC AAACTTGGAA GCAAGGTCAC AGTCCTAGAT GCCTTGGATA CATTCCTACC 540 TCGTGCAGAA CCTTCCATCG CAGCTCTTGC TAAACAATAC ATGGAAGAAG ATGGCATTGA 600 ATTGCTTCAA AATATCCATA CTACTGAAAT CAAAAACGAT GGTGACCAAG TGCTTGTCGT 660 AACTGAAGAC GAAACTTACC GTTTCGACGC CCTTCTCTAC GCAACTGGAC GCAAACCAAA 720 TGTAGAACCA CTTCAACTTG AAAATACAGA TATTGAACTA ACTGAACGTG GTGCTATTAA 780 AGTAGACAAA CACTGTCAAA CAAACGTTCC TGGTGTCTTT GCAGTTGGAG ATGTCAACGG 840 TGGCCTTCAA TTTACTTACA TTTCACTTGA TGACTTCCGT GTTGTTTACA GCTACCTTGC 900 TGGAGATGGC AGCTATACAC TTGAAGACCG TCTCAATGTG CCAAATACTA TGTTCATCAC 960 ACCTGCACTT TCACAAGTTG GTTTGACTGA AAGCCAAGCA GCTGATTTGA AACTTCCATA 1020 CGCTGTTAAG GAAATCCCCG TTGCAGCAAT GCCTCGTGGT CACGTAAATG GAGACCTTCG 1080 CGGTGCCTTC AAAGCTGTTG TCAATACTGA AACAAAAGAA ATTCTTGGAG CAAGCATCTT 1140 CTCAGAAGGT TCTCAAGAAA TCATCAACAT CATCACTGTT GCTATGGACA ACAAGATTCC 1200 TTACACTTAC TTCACAAAAC AAATCTTCAC TCACCCAACC TTGGCTGAGA ACTTGAATGA 1260 CTTGTTTGCG ATTTAAGTTG AGATTTAATC GTATCGAACA GCCCTCTTTG GGCTGTTTTT 1320 ACTTCTGCGG AATCTCAAAT CTGTCTTTCT CCTCTTTTAT GATATAATAG AAACATGAAC 1380 TTAAAAACTA CTTTGGGCCT TCTTGCTGGG CGTTCTTCCC ACTTCGTTTT AAGCCGTCTT 1440 GGACGTGGAA GTACGCTCCC AGGGAAAGTC GCCCTTCAAT TTGATAAAGA TATTTTACAA 1500 AACCTAGCTA AGAACTACGA GATTGTCGTT GTCACTGGAA CAAATGGAAA AACCCTGACA 1560 ACTGCCCTCA CTGTCGGCAT TTTAAAAGAG GTTTATGGTC AAGTTCTAAC CAACCCAAGC 1620 GGTGCCAACA TGATTACAGG GATTGCAACA ACCTTCCTAA CAGCCAAATC TTCTAAAACT 1680 GGGAAAAATA TTGCCGTCCT CGAAATTGAC GAAGCCAGTC TATCTCGTAT CTGTGACTAT 1740 ATCCAGCCTA GTCTTTTTGT CATTACTAAT ATCTTCCGTG ACCAGATGGA CCGTTTCGGT 1800 GAAATCTATA CTACCTATAA CATGATATTG GATGCCATTC GGAAAGTTCC AACTGCTACT 1860 GTTCTCCTTA ACGGAGACAG TCCACTTTTC TACAAGCCAA CTATTCCAAA CCCTATAGAG 1920

TATTTTGGTT	TTGACTTGGA	AAAGGGACCA	GCCCAACTGG	CTCACTACAA	TACCGAAGGG	1980
ATTCTCTGTC	CTGACTGCCA	AGGCATCCTC	AAATATGAGC	ATAATACCTA	TGCAAACTTG	2040
GGTGCCTATA	TCTGTGAAGG	TTGTGGATGT	AAACGTCCTG	ATCTCGACTA	TCGTTTGACA	2100
AAACTGGTTG	AGTTGACCAA	CAATCGCTCT	CGCTTTGTCA	TAGACGGCCA	AGAATACGGT	2160
ATCCAAATCG	GCGGGCTCTA	TAATATCTAT	AACGCCCTAG	CTGCTGTGGC	CATCGCCCGT	2220
TTCCTAGGTG	CCGATTCGCA	ACTCATCAAA	CAGGGATTTG	ACAAGAGCCG	TGCTGTCTTT	2280
GGACGCCAAG	AAACCTTTCA	TATCGGTGAC	AAGGAATGTA	CCCTTGTCTT	GATTAAAAAT	2340
CCAGTCGGTG	CAACCCAAGC	TATCGAAATG	ATCAAACTAG	CACCTTATCC	ATTTAGCCTA	2400
TCTGTCCTCC	TTAATGCCAA	CTATGCAGAT	GGAATTGACA	CTAGCTGGAT	CTGGGATGCA	2460
GACTTTGAAC	AAATCACTGA	CATGGACATT	CCTGAAATCA	ACGCTGGCGG	TGTTCGTCAT	2520
TCTGAAATCG	CTCGTCGCCT	CCGAGTGACT	GGCTATCCAG	CTGAGAAAAT	CACTGAAACG	2580
AGTAATCTGG	AGCAAGTTCT	CAAGACCATT	GAGAATCAAG	ACTGCAAGCA	TGCCTATATT	2640
CTGGCAACTT	ATACTGCCAT	GCTGGAATTT	CGTGAACTGC	TGGCTAGTCG	TCAGATTGTT	2700
AGAAAGGAGA	TGAACTAATG	GTTTATACTT	CACTTTCCTC	AAAAGATGGC	AATTACCCCT	2760
ATCAGCTCAA	CATTGCCCAC	CTCTACGGAA	ATCTCATGAA	TACtACGGGG	ACAATGGAAA	2820
CATCCTCATG	CTCAAGTATG	TGGCTGAAAA	ACTGGGAGCC	CATGTGACCG	TTGACATCGT	2880
TTCTCTCCAT	GATGACTTTG	ATGAAAATCA	CTACGACATC	GCCTTTTTCG	GTGGTGGTCA	2940
AGACTTTGAA	CAAAGTATCA	TTGCAGACGA	CCTACCTGCT	AAAAAGAGA	GCATTGACAA	3000
CTACATCCAA	AACGACGGTG	TAGTTCTGGC	TATCTGCGGT	GGTTTCCAAC	TATTGGGTCA	3060
ATATTATGTT	GAAGCTTCAG	GAAAACGTAT	CGAAGGGCTA	GGGGTCATGG	GACACTACAC	3120
GCTCAACCAG	ACCAATAACC	GTTTTATCGG	TGACATCAAG	ATTCACAATG	AAGATTTCGA	3180
TGAAACCTAC	TATGGATTTG	AAAATCACCA	AGGTCGTACC	TTCCTCTCTG	ATGACCAAAA	3240
ACCGCTGGGA	CAGGTTGTCT	ATGGAAATGG	AAACAACGAA	GAAAAGGTCG	GTGAAGGGGT	3300
TCATTATAAG	AATGTCTTTG	GTTCCTACTT	CCACGGGCCT	ATCCTCTCTC	GTAATGCCAA	3360
TCTGGCTTAT	CGCCTAGTTA	CTACTGCCCT	CAAGAAGAAA	TATGGTCAGG	ACATCCAACT	3420
CCCTGCCTAT	GAGGACATTC	TCAGCCAAGA	AATCGCTGAA	GAGTACAGTG	ACGTCAAAAG	3480
CAAGGCTGAC	TTTTCTTAAA	CAAAGGAAAA	TGATATCAAA	GAACTCCGTT	ATCTTGTCGG	3540
AGTTTTTTGT	CTTTTCTTTT	ACCCTTCTCC	CTTGCATTTT	CTCTCATTTT	TTGCCAAAAT	3600
AGAGGGGTAG	AAAGAAGGTA	GCATATGTCT	AAATTACAAC	AAATCCTAAC	ATATCTTGAA	3660

			780			
TCAGAAAAAC	TAGACGTCGC	TGTCGTATCT	GACCCCGTCA	CAATCAATTA	CCTCACTGGT	3720
TTTTACAGTG	ATCCCCATGA	ACGCCAAATG	TTCCTCTTTG	TCCTAGCAGA	TCAGGAACCT	3780
CTCCTCTTTG	TCCCAGCTCT	TGAAGTAGAA	CGTGCAAGTA	GCACCGTTTC	CTTCCCAGTA	3840
GTGGGCTATG	TCGATTCTGA	AAATCCATGG	СААААААТСА	AACATGCTCT	TCCACAACTT	3900
GACTTCAAAC	GTGTCGCTGT	TGAGTTTGAC	AATCTCATCT	TGACCAAATA	CCATGGTTTG	3960
AAAACAGTTT	TTGAGACTGC	TGAGTTTGAC	AACCTCACTC	CTCGTATCCA	ACGCATGCGC	4020
CTCATCAAAT	CAGCTGATGA	AGTGCAAAAA	ATGATGGTTG	CAGGTCTTTA	TGCTGACAAG	4080
GCTGTTCATG	TTGGTTTTGA	CAATATTTCT	CTTGATAAGA	CTGAGACAGA	TATCATCGCA	4140
CAAATCGACT	TTGCCATGAA	ACGTGAAGGT	TATGAAATGA	GCTTTGATAC	CATGGTCTTG	4200
ACTGGTGATA	ATGCTGCGAA	TCCACACGGC	ATTCCAGCAG	CTAATAAGGT	TGAAAATGAT	4260
GCTCTTCTCC	TCTTTGACCT	GGGTGTTCTG	GTCAATGGCT	ATGCGTCAGA	TATGACTCGT	4320
ACAGTCGCTG	TCGGCAAACC	AGACCAATTC	AAGAAAGATA	TTTACAACTT	GACTCTTGAA	4380
GCCCAACAAG	CTGCTCTTGA	CTTTATCAAG	CCAGGTGTGA	CTGCTCATGA	AGTGGACCGC	4440
GCTGCCCGTG	AGGTCATCGA	AAAAGCTGGT	TATGGTGAGT	ACTTCAACCA	CCGTCTCGGG	4500
CATGGTATCG	GTATGGATGT	CCATGAATTC	CCATCTATCA	TGGAAGGAAA	CGACATGGTC	4560
ATCGAAGAAG	GCATGTGCTT	CTCTGTTGAA	CCAGGTATCT	ATATCCCTGG	TAAAGTCGGT	4620
GTTCGTATTG	AAGACTGCGG	TGTTGTTACC	AAGGATGGCT	TCAACCTCTT	TACAAGCACC	4680
AGCAAAGATT	TGCTTTATTT	TGATTAAACT	ATATAGCCCC	TATGCTTTCC	TTTCAAAATA	4740
TCTAGGGGCT	ATTTTATTGT	CATTTTTCTG	CTATTATGCT	AAAGAAATTG	GCTGCAATAA	4800
TCTAACCCTA	AGTGTCTGGA	ATGATAACGA	GGGTGCTCTC	CGCTTTTATC	AAAGACAAGG	4860
GATGAAACCC	CAAGAAACAA	CAATGGAAAT	GATAATTGAT	TAAGAAGTCA	TCTATCAAAA	4920
GATGTTAGAA	AAAGTTCAAT	TTCACTAGAA	AATGAGGAAA	ATCTCCCCAC	AATAAAACGC	4980
ATAGTATCAG	GTATTGTGTA	CTGACCCCAA	ACAGTTAGAC	AATTAATTTA	TCCGAAGGAT	5040
TTAGTTCTGT	ACTGCACAGG	ACTAAGTCCT	TTTAGTTTTA	CCTTAATTCG	TTTGTTGTTG	5100
TAGTAATCAA	TATAGTCTAT	AATGACTTGT	TCCAATTGGT	TAAGTGATTT	AAATGTTTTC	5160
TCATAGCCAT	AAAACATTTC	GGATTTTAAA	ATGCCAAAGA	AAGATTCCAT	CATACCGTTG	5220
PCTTGGCTGT	TTCCCTTGCG	TGACATAGAT	GCTTGAATTC	CCTTATTCTC	TAGGAACCGA	5280
TGATAAGAAT	CGTGTTGGTA	TTGCCAGCCT	TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	5340
IGCTTCTCTT	TGAATGCCTG	TTCCAACATT	GTTTGTACTT	ATTCTAAATT	AGGCGAACAA	5400
GAAAGATTAA	AAGCAATAAT	TTCGCTGTTA	AAGCCATCTA	AAACTGGTGA	TAAGTAAAGC	5460

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TTGCTGGAAT	GGCAAATTCA	GTCACATCTG	TGTAGCACTT	TTCCATTGTT	5520
CAAATTGGGC	TTGAATGAGA	TTCTCTGCCT	TCTTACCAAC	GTCTCCTTTA	5580
ATTTTCGTTT	CTTTCGCATT	TTAGCTTGTA	AATTGAGTAC	TTTCATCAAG	5640
TTTTATGATT	TACCAGATAA	CCACGATTTC	TTAGTTCTAA	ATGAACCCGG	5700
AATTTCCCTT	GTGTTCGATA	AAGATGGATT	GAATTTCAGT	TTTAAGCTCT	5760
CTGTTTTGTC	TAGCTGTTTC	AAGTGATAGT	AGTAGGTCCA	ACGAGCTAGT	5820
CTAGAAGAAG	ATCTAACGAA	AACTCAGTCA	TTAATTCTTG	AACAATTTCT	5880
TTTCTCTTTT	TCCTCCTTCA	ATCGGAGTTC	TCTTAACTTT	TTTAGGATGG	5940
TCTCAGGTAC	TCTCCCTCTT	GTTTTCTCAA	CAATAGTATA	CCCGTTTTTC	6000
CTAGCCAGTT	AAGAAGTATC	GTACGACTTG	GGAGACCGTA	TTCAAGAGAA	6060
TAGTCCAGCC	TTCATGTCAG	ACTTTATTAA	CCCCAATTAT	TCACCCCAAA	6120
ATCCAGAATC	CTTGCCTTAG	CTTAGATCCT	GGATGGTTTC	TTTTTTCACC	6180
TTTTTACTAG	ACAAAAAAGA	GTTTCCCCTT	TATGGTATAA	GTGTAGAAAA	6240
AGAAAGGAAA	CTCACATGAA	CAGTTTACCA	AATCATCACT	TCCAAAACAA	6300
CAACTATCTT	TCGATGGAGG	TCATTTAACC	CAGTATGGTG	GTCTTATCTT	6360
CTTTTTTCCC	AGTTGAAACT	AAAAGAGCGG	ATTTCTAAGT	ATTTAGTAAC	6420
CGCCGCTACT	GTCGTTATTC	GGATTCAGAT	ATCCwTGTCC	AGTTCCTCTT	6480
ACAGGTTATG	GAACGGAATA	TGCTTG			6516
	CAAATTGGGC ATTTTCGTTT TTTTATGATT AATTTCCCTT CTGTTTTGTC CTAGAAGAAG TTTCTCTTTT TCTCAGGTAC CTAGCCAGCT ATCCAGAATC ATTTTACTAG AGAAAGGAAA CAACTATCTT CTTTTTTCCC CGCCGCTACT	CAAATTGGCC TTGAATGAGA ATTTTCGTTT CTTTCGCATT TTTTATGATT TACCAGATAA AATTTCCCTT GTGTTTCC CTAGAAGAAG ATCTAACGAA TTTCTCTTTT TCCTCTTCA CTAGCCAGTT AAGAAGTATC CTAGCCAGTT AAGAAGTATC TAGTCCAGAC TTCATGTCAG ATCCAGAATC CTTGCCTTAG ATCTAGAAAAAAAAAAAAAAAAAAAAAAA	CAAATTGGCC TTGAATGAGA TTCTCTCCTT ATTTTCGTTT CTTTCGCATT TTAGCTTGTA TTTTATGATT TACCAGATAA CCACGATTTC AATTTCCCTT GTGTTCGATA AAGATGGATT CTGTTTTGTC TAGCTGTTTC AAGTGATAGT CTAGAAGAAG ATCTAACGAA AACTCAGTCA TTTCTCTTTT TCCTCCTTCA GTTTTCCAA CTAGCCAGTT AAGAAGTATC GTACGACTTG TAGTCCAGCC TTCATGTCA ACTTTATAA ATCCAGAATC CTTGCCTTAG CTTAGATCCT TTTTTACTAG ACAAAAAAGA GTTTCCCTTT AGAAAGGAAA CTCACATGAA CAGTTTACCA CAACTATCTT TCGATGGAGG TCATTTAACC CTTTTTCCC AGTTGAACC AAAAAGAGCAG	CAAATTGGGC TTGAATGAGA TTCTTGCCT TCTTACCAAC ATTTTCGTTT CTTTCGCATT TTAGCTTGTA AATTGAGTAC TTTTATGATT TACCAGATAA CCACGATTTC TTAGTTCTAA AATTTCCCTT GTGTTCGATA AAGATGGATT GAATTTCAGT CTGTTTTGTC TAGCTGTTTC AAGTGATAGT AGTAGGTCCA CTAGAAGAAG ATCTAACGAA AACTCAGTCA TTAATTCTTG TTTCTCTTTT TCCTCCTTCA GTTTTCCAA CAATAGTATA CTAGCCAGTT AAGAAGTATC GTACGACTG GGAGACCGTA AAGTCCAGAAT CTTCATGTCAG ACTTTATTAA CCCCAATTAT ATCCAGAATC CTTGCCTTAG CTTAGATCCT GGATGGTTTC TTTTTACTAG ACAAAAAAGA GTTTCCCCTT TATGGTATAA AGAAAGGAAA CTCACATGAA CAGTTTAACCA AATCATCACT CAACTATCTT TCGATGGAGG TCATTTAACC CAGTATGGTG CTTTTTTCCC AGTTGAAACT AAAAGAGCGG ATTTCTAAGT CGCCGCTACT GTCGTTATTC GGATTCAGAT ATCCWTGTCC	TTGCTGGAAT GGCAAATTCA CAAATTGGCC TTGAATGAGA TTCTCTGCCT TCTTACCAAC GTCTCCTTTA ATTTTCGTTT CTTTCGCATT TTAGCTTGTA AATTGAGTA TTCACGAGTAA CCACGATTTC TTAGGTTCA AATTTCCCTT GTGTTCGATA AAGATGGATT TACCAGATAA CCACGATTTC TTAGGTTCA AAGATCAGG AATTTCCCTT GTGTTCGATA AAGATGGATT GAATTCAGT TTTAAGGTCT CTAGCAGAGAA AACTCAGTCA TTAAATTCTGT TCCTCCTTCA AACCAGATCA TTAAATTCTT TCCTCCTTCA AACCAGATCA TTAAATTCTT TCCTCCTCTC GTTTTCCAACTCA TTTAGGATGA TCTCAGGAGAA TCTCACGAGTAC TCTCAGGAGTAC TCTCAGGAGAC TCTCCCTCTT GTTTTCCAACTTA TCAAGGAGAA TAGGCCAGTT AAGAAGATATC GTACGACTTG GGAGACCGTA TTCAAGGAGA ACCCCAAAA ACCCCAAAA ACCCCAAAAAAAA

# (2) INFORMATION FOR SEQ ID NO: 106:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 14654 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

TTTTCAACCC	ATATCGTGGC	TCCTGAATAC	TACTTACTGA	CAACTATGCT	ATCAGAGACT	60
TCTCTACTTG	TTTTCTATAT	CATTTTCATC	CATAGAAAAC	AACTCATCCA	CTTGGGACAT	120
ATCTTTAGCT	ATACTGTTCG	ATACTCTCTC	TTTTCACTTT	CCTTTGTAGC	AATTTATTTC	180
CTGATTAATT	TCGTGTATCC	TGTAGATATG	GTCATTAATT	TGCCATTTTT	GATTAATACT	240
GGTTTGATTG	TCTTGCTATC	AGCTATCTCT	TATATTAGTC	TACTTGTCTT	САСААААСАТ	300

782 AGCATTTTCT ATGAATTTTT AAACCATGTC CTAGCCTTAA AAAATAAATT TAAAAAATCA 360 TAGGAGTTTA AAATGAAACA ACTAACCGTT GAAGATGCCA AACAAATTGA ATTAGAAATT 420 TTGGATTATA TTGATACTCT CTGTAAAAAG CACAATATCA ACTATATTAT TAACTACGGT 480 ACTCTGATTG GGGCGGTTCG ACATGAGGGC TTTATCCCTT GGGACGACGA TATTGATCTG 540 TCCATGCCTA GAGAAGACTA CCAACGATTT ATTAACATTT TTCAAAAGGA AAAAAGCAAG 600 TATAAGCTCC TATCCTTAGA AACTGATAAG AACTACTTTA ACAACTTTAT CAAGATAACC 660 GACAGTACGA CTAAAATTAT TGATACTCGA AATACAAAAA CCTATGAGTC TGGTATCTTT 720 ATCGATATTT TCCCTATAGA TCGCTTTGAT GATCCTAAGG TCATTGATAC TTGTTATAAA 780 CTGGAAAGCT TCAAACTGCT GTCTTTCAGT AAACATAAAA ATATTGTCTA TAAGGATAGC 840 CTTTTAAAAG ATTGGATACG AACAGCCTTC TGGTTACTCC TTCGACCGGT TTCTCCTCGT 900 TATTTGCAA ATAAAATCGA GAAAGAAATT CAAAAATATA GTCGTGAAAA TGGGCAATAT 960 ATGGCTTTTA TCCCTTCAAA ATTTAAGGAA AAGGAAGTCT TCCCAAGTGG TACCTTTGAT 1020 AAAACAATCG ATTTACCCTT TGAGAATTTA AGCCTTCCTG CACCTGAAAA ATTTGATACT 1080 ATTTTGACAC AATTTTATGG AGATTATATG ACCCTACCAC CAGAAGAAAA ACGCTTCTAC 1140 AGTCATGAAT TTCACGCTTA TAAATTGGAG GATTAGGATG CAATATTTAG AAAAAAAAGA 1200 AATTAAAGAA ATTCAACTAG CCCTGCTGGA CTATATTGAT GAGACTTGTA AGAAACATGA 1260 TATTCCTTAT TTTCTCAGTT ATGGAACCAT GCTTGGAGCC ATCCGCCACA AAGGTATGAT 1320 TCCTTGGGAT GATGATATTG ATATTTCCCT TTATCGTGAG GATTATGAGC GTTTACTGAA 1380 GATTATTGAA GAAGAAAATC ACCCTCGCTA CAAGGTTCTT TCCTACGATA CATCTTCTTG 1440 GTACTTCCAT AATTTCGCAT CGATTTTGGA CACTTCTACT GTTATAGAAG ACCATGTTAA 1500 GTACAAGCGT CATGATACCA GCCTTTTCAT CGATGTCTTC CCAATTGATC GATTTACAGA 1560 CTTGAGCATT GTCGACAAGA GCTATAAGTA TGTGGCTCTT CGTCAACTAG CTTATATCAA 1620 AAAATCACGA GCAGTTCACG GTGATAGCAA ACTAAAAGAT TTTCTTAGAT TATGTAGCTG 1680 GTACGCTCTC CGATTTGTCA ATCCTCGCTA CTTTTACAAG AAAATTGATC AACTAGTCAA 1740 AAATGCTGTA ACCAACACTC CTCAATATGA AGGAGGAGTT GGGATCGGTA AGGAAGGGAT 1800 GAAAGAAATC TTCCCAGTTG ATACCTTTAA AGAACTGATT TTAACTGAGT TTGAGGGCCG 1860 TATGTTGCCT GTTCCCAAAA AATATGACCA ATTTTTAACC CAGATGTATG GCGATTATAT 1920 GACACCACCA TCAAAAGAAA TGCAAGAGTG GTATAGTCAT AGCATTAAAG CTTATCGCAA 1980 AAACTGATTG AGGGGGATTA TACAAACTAC TAAGATAGAG GTTATTCAAA AACATAATTT 2040 TAGTAGAAAA TGAAATACAT ATTCCCACAA TAAAACGCAT CATATCAAGG TTTTTGAAAA 2100

ACCTTGATAT GATGCGTTTT	ATAATTTTAA	AGACTTTTTT	CTATAGTAGA	TTGAAATAAG	2160
ATGCGAACAA ATCAATTAGA	AAATTCAAAT	TAATTTATAG	AAATATTTTA	GTATTCCTGT	2220
GTACTGTTCT AAATTCAGTC	TGCTATATCT	TATTTTTCTA	TTTAAATCGC	TTCTGTAACA	2280
AAGCTACGAC TTTCAAGTAC	CTTAAGCATG	GCATTAGCTG	TATCTAGCGC	TGTGAAGAGG	2340
GGCACCCCGT GTTCAATGGC	TGAACGACGA	ATTTGCTCAC	CATCTTCGTC	AGCAGTTCGT	2400
TTTGTTCCTA CTGTGTTAAT	GATAGCTTGA	ATTCTTCCTT	TGCGTACAAA	ACTTGGGATA	2460
TCCTTATCGT CATCACCAAT	CTTACCAACA	GGTTGGGCTT	GCAAGCCATG	ACTAGCAAAG	2520
AAGGCTGCTG TCCCTTCTGT	CGCAAGGATT	CCATAACCAA	TGTTTTGGAA	ACGACGAGCC	2580
AAGTTCAAGG CTTCTTCTTT	GGCATCATCA	GCGATGGTAA	AGACGACATT	ACCAAAAGTT	2640
GGCAAGTGTA GATAAGAAGC	TTCAAAGGCT	TTATAGAGAG	CTTTTTCCAA	AGTAGCATCA	2700
GAACCCATAA CTTCACCTGT	TGACTTCATT	TCAGGACCGA	GCAAGCTGTC	TACCTTAGCT	2760
AGTTTGGTAA AGGAGAAGAC	AGGTGCCTTG	ATATGAACAC	GGGTGCTTTC	AGGGTAAAGT	2820
CCATTTTGGT AGCCAAGTTC	TGATAAACTT	TGACCAAGAA	TGAGTTTGGT	CGCTACTTGA	2880
GCCATAGGAA TATTGGTTAC	CTTAGATAGG	AATGGAACAG	TACGGCTGGC	ACGTGGATTG	2940
ACCTCAATAA CGTAGACTTT	TTCATCCTTG	ATAACAAACT	GGATGTTCAT	CATTCCAAGG	3000
CAGTGAAGAC CGATTGCTAA	GCGTTTGGTG	TAGTCTGCGA	TGGTCTCCTG	AACCTTTTGC	3060
GACAAGGTTT GTGGTGGGTA	AACAGCCATT	GAGTCACCTG	AGTGGACACC	AGCACGTTCG	3120
ATATGCTCCA TGATACCAGG	AATGAGTACA	TTTTTACCAT	CTGAAATGGC	ATCAACTTCG	3180
CACTCTTGCC CAACGATATA	AGAGTCGACA	AGAACTGGGT	GGTCTGGACT	AGCCTTAACA	3240
GCAGTTCGCA TGTAAGAACG	AAGGTCTTCT	TCGTTTTCAA	CGATTTCCAT	GGCACGTCCA	3300
CCAAGTACAT AAGATGGGCG	GACAAGAACT	GGGAAGCCAA	TCTTGCGAGC	TGCAAGAGCT	3360
GCTTCTTCTT CATTGGTAGC	CGTTTGTCCT	GGTGGCTGTG	GAATATCCAA	TTCTTTGAGA	3420
GCTTGCTCGA AGAGGTCACG	GTCTTCGGCA	CGATCTAGGT	CAGCAACCTG	TGTACCAAGG	3480
ATGGTCACAC CTGCTTTTGC	CAATGGCTCC	GCAAGGTTGA	TGGCTGTTTG	ACCACCGAAC	3540
TGAACGATAA CTCCCTTTGG	TTGTTCCAAG	TCAATGACGT	TCATAACATC	TTCGAATGTC	3600
AATGGCTCAA AGTAAAGCTT	ATCTGATACA	GAGAAGTCTG	TTGAAACGGT	CTCTGGGTTT	3660
GAGTTCATGA TGATAGCTTC	ATAACCAGCT	GCCTGGATAG	CCTTAACAGA	GTGAACGGTT	3720
GCGTAGTCAA ACTCAACCCC	TTGACCGATA	CGGATTGGAC	CTGAACCTAG	GACAAGTACA	3780
GATTCTTTAT CAGATCTGAT	AGATTCATTT	TCCCAACCAT	AGGTTGAATA	GAAATATGGC	3840

			784			
GTTTCGGAGT	CGAACTCTGC	CGCACAAGTG	TCTACCATCT	TATAAACTGG	AACAATCTTG	3900
TTTTCCAAGC	GAAGTTGGCG	AACTTTATCA	TCAGTCGTTC	CCCAGAGTTC	AGCAATCTTA	3960
CGGTCTGAAA	AACCATTAAG	TTTGGCTGTT	TTCAAAACTT	CTAAATCTTG	TGGATGAGCA	4020
CCCAATTCTT	GCTCAATTTC	AAAGATATGC	AAGAGTTTAT	CAAGATAGAA	GATATCAATT	4080
TTTGTAAGCT	CTGCAATTTC	TTCAGGTGTG	TAGCCACGAC	GAATGGCTTC	TGATACGTAG	4140
AAGAGACGGT	CATCTTGGGC	TTTGACAACC	TTTTCAATCA	AGGCATCATC	AGAAACTGCT	4200
GCAAGTTCAG	GTATTTCATT	GTGGTGCACC	CCAATTTCAA	GGGAGCGGCA	GGCCTTGAGA	4260
AGAGATTCCT	CGATGTTACG	ACCGATTGCC	ATGACTTCTC	CAGTCGCCTT	CATTTGTGTA	4320
CCGAGACGGC	GTTCACCCTT	TTCAAACTTG	TCAAATGGGA	AACGTGGAAT	CTTAGCAACT	4380
ACGTAGTCAA	GGGCTGGTTC	AAACATGGCA	TAGGTTGAAC	CTGTAACTGG	GTTTATAACC	4440
TCATCCAAGG	TCAAACCTAC	TGCAATCTTG	GCAGCCAACT	TAGCAATCGG	ATATCCTGTC	4500
GCTTTAGAAG	CAAGGGCTGA	CGAACGTGAT	ACACGAGGGT	TTACTTCGAT	AACATAATAC	4560
TTGAAGCTGT	TAGGATCAAG	AGCTAGCTGA	ACATTACATC	CACCTTCAAT	CTTGAGGGCA	4620
CGAATAATGC	TCAAGCTCGC	ATCACGAAGC	ATTTGGTTTT	CATAGTCTGA	CATGGTTTGC	4680
GCAGGGGCAA	ATACAATGGA	ATCCCCTGTG	TGAATCCCAA	CTGGGTCAAA	GTTTTCCATG	4740
TTACAAACAA	CCAAGGCATT	GTCAGCTGAG	TCACGCATCA	CTTCGTATTC	AATTTCCTTG	4800
AAACCGGCAA	TCGAACGCTC	AATCAAACAT	TGGGTAACAG	GTGACAATTT	CAAACCATTT	4860
TCAGTGATTT	CACGCAATTC	TTTCTCGTTG	GCACACATAC	CACCACCAGT	ACCACCAAGG	4920
GTAAAGGCTG	GACGAACGAT	GACTGGGTAG	CCAATTGTCG	CTGCAAAGGC	AACTGCTTCT	4980
TCTACTGTGT	TAACAATTTC	AGATTCTGGA	ATGGGTTGTT	CAAGCTCTTC	CATCAATTGT	5040
TTAAAGAGGT	CACGGTCCTC	CGCTTGGTCA	ATGGCAGATA	ATTTGGTACC	CAGAAGTTCA	5100
ACGCCAAGCT	CGTCTAGGAT	ACCATTTTTA	GATAATTCCA	TGGCCATGTT	GAGACCTGTC	5160
TGACCACCGA	GTGTTGGTAG	CAAGGCATCT	GGACCTTCCT	TACGAAGAAT	ACGTGTCACA	5220
AACTCAAGTG	TAATCGGTTC	AATGTAAACC	TTGTCAGCAA	TTTCCTTGTC	CGTCATGATG	5280
GTTGCAGGAT	TTGAGTTAAC	CAAAACAACC	TCATAACCTT	CCTCTTTCAA	CGACAAGCAA	5340
GCCTGAGTCC	CAGCGTAGTC	AAACTCAGCA	GCCTGACCAA	TAATAATCGG	ACCAGAACCA	5400
ATCACCATAA	TTTTTTGAAT	ATCAGTACGT	TTAGGCATAT	ATAAGATATT	AAGGGTGTCA	5460
AGCGGACAAA	GCTAAAATAG	GAGTTATGAC	GAAGAACTGT	CAGTTCTAGG	AATAACTATC	5520
PTTTTAGCAC	CGTCCGTAGC	CCGTATTCAG	TTCAGCAAAT	ACGGAGCACC	CTTCTCCTTT	5580
CTATTCGTCG	CCTCTCAGGG	CGACATTAAA	TAAGATACAA	AGGACGAATA	GAAAGCGATT	5640

GAATTTTAGG	AAATCAAGGA	AGGATTGACA	ATCCAAGTTG	GTTTCTCTAC	ATTCTGAGCT	5700
TTCCGTCCGT	GTTCAGTTAC	ATAAATTCTC	CGACGAGCTT	TTACTCGTTC	TTAGTTTGAT	5760
TGTTTAAAAA	CTTCCATCAT	CTCGATAAAC	TCGTCAAATA	GGTAGCTAGC	GTCGTGTGGC	5820
CCAGGAGCTG	CATCTGGGTG	GTATTGAACA	GAGAAAGCAG	GTTGGTATCT	GTGGCGCACA	5880
CCTTCCACTG	ACTTGTCATT	GATTTCTTCG	TGGGTAATAA	TCAAGTGCTC	TGGCAAATCC	5940
TCGCGGCTGA	CTGCATAACC	ATGGTTCTGG	CTGGTGAAGT	CTACTCGTCC	TGTTGCGATT	6000
TCACGTACCG	CATGGTTGAA	TCCACGGTGG	CCAAACTTCA	TCTTATAGGT	CTTAGCCCCG	6060
TTTGCCATTG	CAAAGAGTTG	GTGTCCCATA	CAAATACCAA	AGATTGGAAT	TTTTCCTTGT	6120
ACACCGCGAA	TCATGTCGAG	TGCTTGTGGA	ACGTCTTCTG	GGTTACCTGG	ACCATTTGAC	6180
AACATAACTC	CGTCAGGATT	GAGATGGAGA	ATTTCTTCAG	CCGTTGTCGA	ATAAGGAACA	6240
ACTGTCACGT	TACAGTTGCG	TTTAGAAAGT	TCACGTAGGA	TTGAGTGCTT	GAGACCAAAG	6300
TCCACTAGCA	CCACGCTCAA	ACCAACTCCT	GGAGCTGGAT	AAGACGTTTT	AGTAGAAACC	6360
TGTTTGATAT	TGTCTGTCGG	TAAAACTGTT	GCTTGGAGCT	GGTCCGTCAC	ATGGTCCATA	6420
CTGTCCCCAA	CATGGGTCAA	GGTTGCACGC	ATAGTACCAT	GCTTACGGAT	AATCTTGGTA	6480
AGAGCACGCG	TATCAATTCC	TGAAATCCCT	GGAATTTTCT	TGGCTTTCAA	AAATTCATCC	6540
AAGGTCATTT	GGTTGCGCCA	GTTGCTAGCT	CTACGCGCTT	CTTCAAAAAC	AACGACTCCC	6600
TTACAAGTTG	GAATAATGGA	TTCATAATCA	TCACGATTAA	TACCATAATT	TCCTACCAAA	6660
GGATAAGTAA	AGGTCAAGAT	TTGTCCATTA	TAAGACTGGT	CTGTAATGGA	TTCTTGGTAG	6720
CCGGTCATCC	CTGTATTAAA	GACGATTTCG	CCTGTTACAT	CAATATCTGC	TCCGAAGGCC	6780
TTGCCTTCAA	AAACTGTGCC	ATCTTCTAAT	ACTAGAATTC	TTTTTGTCAT	ATTTTCACCT	6840
CTCGTGGACG	CTCACTGGCG	TCTTTTAACG	TCTTGTGTTT	TAGTTGGCGT	TTCTACTCGC	6900
TAGTACGGAT	TCTAAGATTG	CCATTCGAAC	AAAGACACCA	TTGGTCATTT	GTTGGACAAT	6960
CCGTGATTTT	GGTGCTTCAA	CCAAGTGGTC	TGCTATTTCT	ACATCACGAT	TGATTGGAGC	7020
TGGGTGCATG	AGGATTGCTG	TTTCTTTCAA	ACGATCGTAA	CGTTCTTGAG	TCAAGCCATG	7080
TTGGGCATGG	TAGTCTTCTT	TTGAAAATAC	AGCTCCACTA	TCATGGCGTT	CGTGTTGCAC	7140
ACGGAGAAAC	ATCATGACAT	CAACCTGATC	AATGATTTCA	TCAATGGTTA	CAAACTGTCC	7200
ATAGTCTGCA	AACTCTTGAC	TTCTCCATTC	CTCAGGTCCA	GCGAAAAAGA	GTTCAGCTCC	7260
CAAGCGTTTC	AAAATCTGCA	TATTGGATTT	GGCAACGCGT	GAGTGGTCCA	AGTCACCTGC	7320
AATAGCAACT	TTAAGACCCT	CAAAGTGGCC	AAATTCCTCA	TAAATGGTCA	TCAAATCAAG	7380

CAAGCTCTGG	CTAGGGTGTT	GGCCCGAACC	786 ATCTCCACCA	TTGATGATGG	AAGTCGTAAT	7440
CGTTGGACTA	GCAATCAATT	CTCTATAGTA	GTCGACCTCT	GGATGGCGAA	TCACACAGAC	7500
ATCCACTCCT	AAAGCAGACA	GAGTCAAAAT	GGTGTCATAA	AGTGTCTCAC	CCTTATTAAC	7560
CGAGCTAGTC	TTCACATCAA	AGTCAAGTCG	TTCCAATCCA	AGTTTAATCT	CTGCGACTTC	7620
AAAGGACTTA	TGTGTCCGTG	TAGAATCCTC	AAAGAAGAGA	TTGGAAACAA	TCGGATGGTC	7680
TTCATAGGGA	AGCTGGGCTC	CATTTTTAAA	CTCAATTCCT	CGCTTGATCA	ATTTCATTAC	7740
TTGATCGACA	GTGAGGTCTT	CCATGGACAC	CACATGGTTC	AATGCTTGTT	GATTTTCTGA	7800
CATGGCTACT	CCTTTAACTT	TCTAAGCTTC	TTCAGTAATC	AGAACTCTGT	CTTGGTCATC	7860
AAGTTCTGTC	ATCTCTACGA	TGATTTCTTC	AGAACGACTG	GTTGGGATAT	TTTTTCCAAC	7920
GTAATCTGGA	CGGATTGGCA	ATTCTCTATG	TCCACGATCG	ACTAGAACTG	CTAAACTCAC	7980
ACGCGCAGGA	CGACCATGAC	CGACAATATT	ATCAATAGCA	GCACGGATGG	TACGACCTGT	8040
ATAGAGCACA	TCATCCACCA	AGATAACTTC	GCGGTCTGTC	ACATCGACAG	AAACCAAAGA	8100
AGTATCTTCT	CCACTTTTAA	CATCATCACG	GAAAGGTTTA	GTATCCAATT	CCACAACAGG	8160
AACTGAAAGA	TTTTCTAACT	GCTTCAAACG	TTCTTGGATT	CGGTGGGCAA	TAAAGACACC	8220
ACGAGTTTTA	ATACCAGCCA	AGACGATCTT	ATTCAAATCT	TTGTTGCGTT	CGATAATCTC	8280
ATAAGTAATA	CGCGTAATCG	CTCGTTTGAC	GGTCAATTCG	TCTACAACTT	CTTTTGTTTT	8340
CATGACAAAC	CTCCAAAAAG	AAAAGTCTCC	TTAAACAAGG	AGACTTGAAA	TTTATAGCCA	8400
AGCGAGCCCT	ACTGCACACA	GTATAGACTT	CACCCTTCTA	CTTTATCGCG	CTCCTTGCCT	8460
GCCTCACGGG	ACAGGTTTAA	AGGAATATTT	AGTTATCATT	TACTATAGCA	CAAAGCATGC	8520
TTAAAATCAA	GCAAAAAGTT	TCAATGTAGC	ATCTTACAAA	TTGCTAAAAT	CATATAATTG	8580
TGGGTACTGG	TCACACTCTG	GATTTTTTGG	ATGGCAAATG	GCTCTTCCAA	AATAAATCAT	8640
GGCCTGATGG	GCAGCTAACC	ACTGCTCAGG	CGGCAAGATA	TCCATGACCC	GCTTTTCCAC	8700
CTCAAGTGGC	GTCGCTGATT	TTTTGACAAT	ATCGTGGTGT	TTGCAAATAC	GCTCCACATG	8760
AGTATCCACT	GCAAAGGCTG	GAATTCCAAA	TCCTACACTC	ATGACAACAT	TGGCTGTCTT	8820
GCGACCAACA	CCTGCCAAAC	TCTCCAATTC	TTCACGTGTC	TGAGGGACTT	GACCATCAAA	8880
ATCGTCTAGT	AACTGTTGGG	CACATTTTTT	AAGGAATTTA	GCTTTATTCC	GATACAATCC	8940
CAAGCGAGAA	ATATGTGAAG	CAATCTCACT	CTCTGTCGCT	ACAGACATAG	CTTGGGGTGT	9000
TGGAAAGGCA	ACAAAGAGAC	CTGGTGTGGC	CTTATTTACC	GCTGCATCTG	TCGTCTGGGC	9060
TGATAACATG	ACCGCAACCA	GGAGTTCAAA	ATGATTGGTA	AAATCAAGAC	TAGGCTTGGC	9120
ATCTGGGAAG	AGGGCAATGA	TTTCTTCTAG	CACCTTTCGT	GCTCGTTTTT	TTGACAAGAC	9180

CATTATTCAT	CTCCGTCAAA	TAGTCCTTGT	AAGCCAGCAA	AAGGACTGTT	TTCTTCTTTC	9240
TTTACTGCTT	TTTGAGCTTG	GTATTCTTCC	TCTGTCATGA	TTTGCCAGTC	ATTTCCTGAG	9300
ATAAATCCTT	GACCAGCTTC	TTCTTCAGCC	GTCAAGACCT	TGATAGGAAT	GTTTAGCAGG	9360
ATATTGTCTG	ATACACTCTC	AGCAAGGTCA	AGCTCCCCAT	TTTCGATGGG	CAAGACCAAG	9420
TCATCATCTA	AAACTTCTTG	ATCTAGCTGG	TTAGTTGCGC	CTTCCATGAA	AACTTCCGTG	9480
ACTGGATAAG	ATTCAACTAA	CTCAACTGGC	TCCATACTGC	GACTCGACGC	AAGAACAATG	9540
GTATAAGATA	GTTGATAATC	TAAGAAATAC	ATACGGTCTT	CATATTGTAC	TTTCCCAACT	9600
GCAAGGATAT	CTTTTACATC	TAAAATTTCT	TGATTACGTG	CACGCAGGTC	АТСААСТААА	9660
TCTAACGTTT	GTTCAAAGTT	CAAACCTTCA	GACTGCTTAC	GAATTTCTTG	AATATTTAAT	9720
TTCATACTTC	CTCCATAAAG	ATTTACTCTC	TTGATTATAC	CATGAAAAGG	CTACAAATCA	9780
GCACACCAAA	CTTTGTAATT	AAAATTCAAA	ATTTTAACAT	ATTTACTATG	ATAGTTTTAT	9840
TTTTTAGTGC	TATACTATAG	GGAAAGAGTA	CATCAGATCA	AGGAGGATGC	TCACATGGAA	9900
GACAAGAAAC	TCATTCAACT	CCTATCCAAG	ТТАААТАААА	GCTACCAAAA	CTGTAAACAG	9960
GGTACGGCAG	ATGATATTCG	ACTACAAGAG	CTGCTAAACA	CTACTATGCA	AGAGCTCAAA	10020
AAAACGGAAC	AGTTGAACAA	CAGTATCTTA	ATTGATCTTG	AGAAATTTTA	CCAACCTACC	10080
AGTCTTCTGA	TTGGACTGGG	TAGCCTAAAA	CTAAACGATC	AAGCACGCAC	TGCTTGGCGA	10140
AACTATGATA	AATTCCATTA	CGATCATGTC	AAACACGTAC	TAAGTCTCTA	TGGACCTGTT	10200
TTTGAATTTT	AGAGCATAGA	ATTTCCAGTT	TTCTGTTGAC	AAAATTTCCT	TAAAGGTATA	10260
ATATAAAGAT	ACTAATACTC	GGAGGTAAGG	GAGACATGAA	CAACTAAGTC	TATCAAATAA	10320
AGAACCTTTA	TTTAGTAGAT	CTTGTTTTTG	TCTCTTTTTG	TGTGCTCTTT	TATGCTCTTT	10380
TTCTGGCATG	TTAATAGAGT	TTTTTTGACA	TAGACTTTGG	GCTCTACTAG	GTAAAGTAGA	10440
GCTTTTTGTT	ATGCACTATG	AACATTCTAG	AAAGGGAAAT	CATATGATAA	AAATCAATCA	10500
TCTAACCATC	ACACAAAACA	AAGATTTACG	AGATCTTGTA	TCTGACCTAA	CCATGACCAT	10560
CCAAGACGGG	GAAAAGGTTG	CTATTATTGG	TGAAGAAGGA	AATGGCAAAT	CAACCTTACT	10620
TAAAATTTTA	ATGGGGGAAG	CTTTGTCTGA	TTTCACTATC	AAGGGAAACA	TCCAATCTGA	10680
CTATCAGTCA	CTGGCCTACA	TTCCTCAAAA	AGTCCCTGAG	GACCTAAAAA	AGAAAACTTT	10740
ACACGACTAC	TTCTTTTTAG	ATTCTATTGA	TTTAGACTAC	AGTATCCTCT	ATCGTTTGGC	10800
GGAGGAATTG	CATTTTGATA	GCAATCGTTT	CGCAAGTGAC	CAAGAGATTG	GCAATCTATC	10860
AGGGGGCGAA	GCTTTGAAAA	TTCAGCTTAT	CCATGAGTTA	GCCAAACCCT	TTGAGATTCT	10920

			788			
ATTTTTAGAT	GAACCTTCAA	ATGACCTAGA		GTTGATTGGC	TAAAAGGCCA	10980
GATTCAAAAG	ACCAGGCAAA	CCGTTATTT	CATTTCCCAT	GATGAAGACT	TTCTTTCTGA	11040
AACGGCAGAC	ACTATTGTTC	ACTTGCGACT	GGTCAAACAC	CGTAAAGAAG	CGGAAACGCT	11100
AGTAGAGCAT	TTAGACTATG	ATAGCTATAG	TGAGCAGAGA	AAGGCTAATT	TTGCCAAACA	11160
AAGTCAGCAA	GCTGCTAACA	ACCAAAGAGC	CTACGATAAA	ACCATGGAAA	AACATCGGAG	11220
AGTTAAGCAA	AATGTAGAAA	CTGCGCTTCG	AGCTACCAAA	GATAGTACTG	CCGGTCGCCT	11280
ATTGGCTAAA	AAGATGAAAA	CTGTCCTCTC	ACAAGAAAAA	CGCTACGAAA	AGGCAGCTCA	11340
GTCCATGACT	CAAAAGCCAC	TTGAAGAGGA	ACAAATCCAA	CTTTTCTTTT	CAGACATCCA	11400
ACCATTACCA	GCTTCTAAAG	TCTTAGTCCA	ACTGGAAAAA	GAAAATTTGT	CCATTGACGA	11460
CCGAGTTTTG	GTTCAAAAAC	TACAACTAAC	TGTCCGTGGC	CAAGAAAAA	TCGGTATTAT	11520
CGGGCCAAAT	GGTGTTGGGA	AATCAACTCT	GTTAGCCAAG	TTACAGAGAC	TTCTGAATGA	11580
TAAAAGAGAG	ATTTCACTTG	GTTTTATGCC	ACAAGATTAC	CACAAAAAAC	TGCAATTGGA	11640
TTTATCCCCA	ATAGCCTATC	TCAGTAAAAC	TGGGGAAAAA	GAGGAACTAC	AGAAAATCCA	11700
ATCTCACCTA	GCTAGTCTCA	ATTTCAGTTA	TCCAGAAATG	CAGCATCAAA	TTCGCTCCTT	11760
ATCTGGCGGA	CAACAGGGAA	AACTCCTGCT	TTTGGATTTA	GTCCTGCGCA	AACCAAACTT	11820
TCTCCTGCTG	GATGAACCCA	CACGAAACTT	TTCTCCCACT	TCTCAACCCC	AAATCAGAAA	11880
ACTCTTTGCT	ACCTATCCAG	GCGGTCTCAT	CACTGTTTCG	CATGACCGTC	GTTTCTTAAA	11940
AGAAGTCTGC	TCGATCATCT	ATCGCATGAC	AGAACACGGT	TTGAAGCTAG	TTAATTTAGA	12000
AGATTTATAA	ATTTGCAACA	TAGCAAAAAT	CCAGAGACGA	CCTCTGGATT	CTTTTACATC	12060
TGTTTTAAAC	GTTCAATCCG	TTCTGAGATA	GGTGGGTGGG	TATAAAAGAG	TTTTTGGAAC	12120
CCCCCACCTT	TCTTAGGATC	ATTGATATAA	AGGGCACTGC	TAGCATCATC	GACGTGGCGA	12180
CTCATAGGTT	TGCTATTGTC	CAACTTATCT	AGGGCATTAA	TCATTCCCTG	GGGATTGCGA	12240
GTCAGCTCGA	CACTAGATGC	ATCTGCCAGA	AATTCCCTCT	GACGAGAAAT	AGCGAGCTGA	12300
ACCAAGGTTG	CAGCGAGAGG	TGCCAGTACA	ATAGCTAGTA	GGGAAACCAC	TAGCATAATG	12360
ATTTCAAGAC	CATTTCCATC	TCGGTCATCA	TCACTTCGTC	TGCGACCTGC	TCCACCCCAC	12420
CACATCATAC	GACCTGCCAT	ACTAGAAAGC	ATGGTGATAG	CACTAGCAAG	GGCAACTGCA	12480
ATAGTCGAAA	TACGGATATC	ATAATTACGA	ATATGACTGA	CTTCATGTCC	CATAACAGCT	12540
TCTAGTTCTT	CACGATTCAT	GATAGCTAGT	AGACCTGAAG	TCGCAGCAAC	AGCCGCATTT	12600
TGAGGATTAG	AACCTGTCGC	AAAGGCATTT	AAGGCTGGAT	CATCAATGAT	GAAAACACGG	12660
GGCATAGGAA	TCTGAGCGAC	CAGAGCCATA	TCTTCCACTA	CATGGTAGAG	GTCTGGTGCC	12720

GTTTGCTCAT	CCACCTCACG	CGCTCCATTC	ATGGACATGA	CAATCTCTGT	CGATTGAAAA	12780
ATCATAGACA	AAGCGTAGAT	AAAGCCGATA	ATCAGTGCAA	TAACCAAACC	ACCAAGTCCA	12840
GATCTTATAA	AGAGATAACC	AACCGCATAA	CCAACAAGAG	CTAAGAGTAG	GAAAAATACC	12900
AGCAACAAAA	TCCAGGTTTT	TCGTTTATTG	CTTGCAATTT	GATCAAACAA	CATCTTAGTC	12960
ACCTAAACCG	СТААААТСАА	CTTTAGGAAC	CGACTTTTCC	TCTTCAGGTG	TTTGAAGGAA	13020
ATCTGCCGCT	ТТАААТССАА	ACATTCCAGC	GATAATATTG	CTCGGGAAAG	TTTCTAATTT	13080
TACATTGTAG	TTGCTGACAA	CACTGTTATA	GAGTTGACGA	GAGTAAGAAA	TTTTATTTTC	13140
TGTGTTTGTC	AACTCCTCTT	GCAATTTAAC	AAAGTTAGCA	CTAGCTTTCA	AATCTGGATA	13200
GCTTTCTGCA	ACTGCAAAAA	TACCTGAAAC	CTGACGAGTG	AGGGCATCAC	TGGCTTTCAT	13260
AGCTTCTGCT	GGTGAAGTCG	CTGCCGCCAC	TTGGTTACGT	AGTTCTGCCA	CCTTTTCAAG	13320
GGTAGAACCT	TCATATTTGG	CATAACCTTT	TACAGTCTCA	ATCAAGTTTG	GCAAGAGGTC	13380
ATTGCGACGT	TTCAACTGAA	CATCAATCTG	ACTCCAAGCC	TCCTTGGTTT	GCATACGATT	13440
TTTAACCAAA	CCGTTATAGC	TAACAATCAC	AAAAATAACA	ATAAGAGCGA	TAACTCCAAG	13500
AATAATCCAA	GTCATAATAT	AAGTCCTTTC	TGCTTTTAGA	TTAGTACCAG	TATATCAAAT	13560
TTTCTATGAT	TGTGGTAAAA	TAAGATGATA	CTAAAGAAGG	AAATAACTAT	GAAACCAAAA	13620
ACATTTTACA	ACTTGCTTGC	CGAGCAGAAT	CTTCCACTTT	CGGACCAGCA	AAAAGAACAA	13680
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ACGGACAAGG	AAGAAGTTTA	TCTCAAACAT	TTTTACGATT	CGATTGCACC	CATTCTTCAA	13800
GGTTTGATTC	CCAATGAAAC	TATCAAACTT	CTTGATATCG	GGGCTGGGGC	AGGATTTCCT	13860
AGTCTACCAA	TGAAAATTCT	CTATCCGGAG	TTAGATGTGA	CCATTATTGA	TTCACTCAAT	13920
AAGCGCATCA	ACTTCCTACA	ACTCTTGGCT	CAAGAACTGG	ATTTGAACGG	AGTTCATTTC	13980
TACCACGGAC	GTGCCGAAGA	TTTTGCCCAA	GACAAGAACT	TCCGTGCTCA	ATATGATTTT	14040
GTAACAGCTC	GTGCGGTTGC	CCGTATGCAG	GTCCTATCTG	AATTGACTAT	TCCCTACCTT	14100
AAGGTTGGTG	GCAAACTATT	AGCACTCAAG	GCTAGCAATG	CGCCTGAGGA	ATTATTAGAA	14160
GCTAAGAATG	CCCTCAATCT	CCTTTTTAGT	AAGGTCGAAG	ACAATCTCAG	TACGCCCTAC	14220
CGAATAGAGA	TCCGCGCTAT	ATCACAGTGG	TAGAAAAGAA	AAAAGAAACA	ССАААТАААТ	14280
ATCCACGTAA	GGCTGGTATG	CCAAATAAAC	GCCCACTTTA	AATTTTTTAG	TAAACAAATG	14340
TTTACAAAAT	CAGCCTCGCT	CTTTTATTTC	TAGGCTCGGG	AAAAAATGAT	TTACAAAATC	14400
AGCCTCGCTC	TTTTATTTCT	AGGCTCGGGA	AAAAATGATT	TACAAAATCA	TTTTTTTCTG	14460

			790			
CTATACTATC	CTAAGCAAAG	GTTTTTAATG	TCATCCCGTG	AGGTGACGAA	GACGCAGAAA	14520
TATTTAAAAC	TCTTTAAAAT	CTAAATTTTA	AAGAAGTCTT	ACTCTGAGGG	CCTATTGCTG	14580
TAAAATAATG	GGCTCTTTTT	TGATGCCCAA	AAGTGAGGTT	TATATGAAAC	AAGAATCAAC	14640
TGTTGATTTG	TTAC					14654

#### (2) INFORMATION FOR SEQ ID NO: 107:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6405 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

AGAAAATCT GCTTTACAGA	АААТААААТ	AATAGGAGAA	AATCTATGTC	AGATTTGAAA	60
AAATACGAAG GTGTCATTCC	AGCCTTCTAC	GCATGTTATG	ATGATCAAGG	AGAAGTAAGC	120
CCAGAACGTA CGCGTGCCTT	GGTTCAATAC	TTCATTGATA	AAGGTGTTCA	AGGTCTTTAT	180
GTCAATGGTT CTTCTGGTGA	ATGTATCTAC	CAAAGCGTTG	AAGATCGCAA	GTTGATTTTG	240
GAAGAAGTCA TGGCGGTAGC	AAAGGTAAAT	TGACCATTAT	TGCCCATGTT	GCTTGCAATA	300
ATACTAAAGA TAGTATGGAA	CTTGCTCGCC	ATGCTGAAAG	CTTGGGAGTA	GATGCTATTG	360
CAACGATTCC ACCAATTTAT	TTCCGCTTGC	CAGAATACTC	AGTTGCCAAA	TACTGGAACG	420
ATATCAGTTC TGCAGCTCCA	AACACAGACT	ACGTGATTTA	CAACATTCCT	CAATTGGCAG	480
GGGTTGCTTT GACTCCAAGC	CTTTACACAG	AAATGTTGAA	AAATCCTCGT	GTTATCGGTG	540
TGAAGAACTC TTCTATGCCA	GTTCAAGATA	TCCAAACCTT	TGTCAGCCTT	GGTGGAGAAG	600
ACCATATCGT CTTTAATGGT	CCTGATGAGC	AGTTCCTAGG	AGGACGCCTC	ATGGGGGCTA	660
GGGCTGGTAT CGGTGGTACT	TATGGTGCTA	TGCCAGAACT	CTTCTTGAAA	CTCAATCAGT	720
TGATTGCGGA TAAGGACCTA	GAAACAGCGC	GTGAATTGCA	GTATGCTATC	AACGCAATCA	780
TTGGTAAACT CACTTCTGCT	CATGGAAATA	TGTACGGTGT	CATCAAAGAA	GTCTTGAAAA	840
TCAATGAAGG CTTGAATATT	GGATCTGTTC	GTTCACCATT	GACACCAGTG	ACTGAAGAAG	900
ATCGTCCAGT TGTAGAAGCG	GCTGCTGCCT	TGATTCGTGA	AACCAAGGAG	CGCTTCCTCT	960
AATCTAAAAG GAGGTATTTA	TGACATATTA	CGTTGCAATT	GATATCGGTG	GAACCAACAT	1020
CAAGTATGGT TTGGTTGATC	AAGAGGGGCA	ACTTCTTGAA	TCGCATGAAA	TGCCAACTGA	1080
GGCGCATAAG GGTGGACCTC	ATATCTTACA	AAAGACCAAA	GATATCGTAG	CTAGTTATTT	1140
AGAAAAAGGC CCAGTAGCAG	GTGTTGCCAT	ATCTTCTGCT	GGGATGGTGG	ATCCGGATAA	1200

GGGTGAGATT	TTCTATGCTG	GGCCGCAAAT	CCCTAACTAC	GCAGGCACCC	AGTTCAAAAA	1260
GGAAATCGAA	GAAAGCTTTA	CTATTCCTTG	TGAGATTGAA	AATGATGTCA	ACTGTGCAGG	1320
TCTTGCTGAG	GCAGTATCTG	GTTCAGGCAA	GGGAGCAAGT	GTGACACTTT	GCTTGACCAT	1380
TGGAACCGGT	ATCGGTGGTT	GCTTGATTAT	GGATAGGAAA	GTCTTCCATG	GTTTTAGCAA	1440
TTCAGCCTGT	GAAGTCGGGT	ATATGCATAT	GCAGGATGGA	GCTTTTCAAG	ACTTGGCTTC	1500
TACAACAGCT	TTAGTGAAAT	ATGTAGCTGA	AGCCCATGGA	GAAGATGTTG	ATCAGTGGAA	1560
TGGCCGTAGA	ATTTTCAAAG	AAGCCACTGA	AGGAAACAAA	ATCTGCATGG	AAGGTATTGA	1620
CCGTATGGTT	GACTATCTAG	GAAAAGGTCT	GGCAAATATT	TGCTACGTTG	CCAATCCAGA	1680
AGTGGTTATT	CTTGGTGGTG	GTATCATGGG	GCAAGAGGCT	ATCCTCAAAC	CTAAGATCCG	1740
TACAGCCTTG	AAAGAGGCTT	TGGTACCAAG	TTTAGCAGAA	AAAACACGAT	TAGAATTTGC	1800
CCATCACCAA	AATACAGCAG	GGATGTTGGG	TGCATATTAT	CATTTTAAGA	CAAAACAATC	1860
CTAGTTTGGC	TCAGCCAAAC	TAGGATTTTC	TTACACGTTT	TTGTCTACGA	TAGCCGTTGA	1920
GTTTTTTATT	TTCCCAGTAG	CTATTAAAGA	TTTTTTCCTT	GCTTTCGCGA	TTGATTTCCA	1980
AAAAGTAGGC	ATAAATCAAA	TCGATAAAGA	AGAGCATAGG	AAGTTGAGCG	GATATTCGTT	2040
GGATATAGGA	GGGTTGGCTG	TGGGTGGCTA	CAAGAACAGT	CTCTGTATAG	GTCTGGCTAT	2100
CTTTATTGGG	AACACTTGTA	AAGAGTACAG	TCTTTGCCCC	CATCTCCTTA	GCATCTAATA	2160
GACTATCTAA	AATAGAAGGA	GTTGAGCCTG	AAAGTGAGAA	GCCCAGTACT	AGACAATTTT	2220
CATCCATGAT	GCTGGTTGTC	CAGGCAAAGC	CGTCTTGGTC	TGTCAAAGCT	TCGCAGACCA	2280
CACCTAGTCG	CATAAAACGT	AATTTCATTT	CACGGGCGAC	GAGGCCAGAA	CTCCCTGTTC	2340
CAAAGAAGTA	GATACGCTCA	GCATCTTCGA	TTAGCTGGGC	AATTCGTTCT	AGTTGGATTT	2400
CGTCAATCAA	GTCTTGTGTT	TGTTCCCTCA	TATTGCTATA	ACTTCTGAGG	ACTCGTTTGG	2460
TCAGTGGACT	GTGCTTGGAG	ACTTGGTTGG	CTTGATTTTC	TGCCTGATGT	TGGTATTGGA	2520
AAATAAATTC	TCGGTAGCCA	GTAAAGCCAC	ACTTTTTAGC	AAAGCGGGTC	AAAGCAGCTT	2580
GAGAAATATG	TAATTTTTGG	GTGACTTGTT	GAGAAGATAA	ATCATCTGTA	ATCGTTTCAG	2640
CTTGCAAAAA	ATAGCGAGCG	ATTTCTTGTT	CTAGGTCTGT	CATTTCTTCA	AAATGTGAAT	2700
CAATGATAGT	TGCGATATCT	GGTTTGTCCA	TAGGGAAAGC	TCCTTTACAT	GAGTCATACT	2760
GGAAGACTAG	ATCAGAGAAT	AGTCACACTT	CATTATAACA	CATAATATAA	GGATAGATAA	2820
ATAAAAACGC	ATCTCTGTTT	TAAAAACGAA	AAAATCGAAA	AAGCTTCTCT	CTTTTCCATA	2880
ATTTTCTACT	CAAATTGTGG	TACAATTAAG	AGTAAGATTT	TAAGTTAGAA	ATGAGACTGA	2940

			792			
TTTGTATGAG	AAAATTTAAC	AGCCATTCGA		GCTTAATTTA	TTGTTTTCAA	3000
TCGTCATTTT	ACTCTTTATG	ACCATTATTG	GTCGTTTGTT	GTATATGCAG	GTTTTGAACA	3060
AGGATTTTTA	CGAAAAAAAG	CTAGCTTCAG	CTAGTCAGAC	CAAGATTACA	AGCAGTTCAG	3120
CCCGTGGGGA	AATTTATGAT	GCTAGTGGAA	AACCTTTGGT	AGAAAATACG	TTAAAGCAGG	3180
TTGTTTCCTT	TACGCGTAGC	AATAAAATGA	CGGCTACAGA	CTTAAAAGAA	ACAGCTAAAA	3240
AGTTACTGAC	TTATGTGAGC	ATCAGTTCTC	CAAATTTGAC	AGAACGCCAG	CTGGCGGATT	3300
ACTATTTGGC	TGATCCTGAA	ATCTATAAAA	AAATAGTGGA	AGCTCTCCCA	AGTGAGAAAC	3360
GCTTGGATTC	AGATGGCAAT	CGTCTATCCG	AATCAGAACT	GTATAACAAT	GCGGTCGATA	3420
GTGTACAAAC	GAGTCAACTA	AACTATACAG	AGGATGAAAA	GAAAGAAATC	TATCTTTTTA	3480
GTCAGTTAAA	TGCTGTTGGA	AACTTTGCGA	CAGGAACCAT	TGCGACAGAT	CCTCTAAATG	3540
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GTGAAAAAGC	TGGTCTCCCA	GCGGAAGAAG	CAGAAGCCTA	TCTTAAAAAA	GGCTATTCTC	3720
TAAATGACCG	TGTAGGAACC	TCCTATTTGG	AAAAGCAATA	TGAAGAGACC	TTACAAGGAA	3780
AACGCTCGGT	AAAAGAAATC	CATCTGGATA	AATATGGCAA	TATGGAAAGC	GTGGATACAA	3840
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GCGTGGATGC	TTTACTGAAA	AGTTATTTCA	ATTCTGAGCT	AGAAAATGGT	GGAGCCAAGT	3960
ATTCTGAAGG	TGTCTATGCA	GTCGCCCTTA	ACCCAAAAAC	AGGTGCGGTT	TTGTCTATGT	4020
CAGGGATTAA	ACATGACTTG	AAAACGGGAG	AGTTGACGCC	TGATTCCTTG	GGAACGGTAA	4080
CCAATGTCTT	TGTTCCAGGT	TCGGTTGTCA	AGGCGGCGAC	CATCAGCTCA	GGTTGGGAAA	4140
ATGGAGTCTT	GTCAGGAAAC	CAGACCTTGA	CAGACCAGTC	CATTGTCTTC	CAAGGTTCAG	4200
CTCCCATCAA	TTCTTGGTAT	ACTCAGGCTT	ACGGTTCATT	CCCTATCACA	GCGGTCCAAG	4260
CTCTGGAGTA	TTCATCAAAT	ACCTATATGG	TCCAAACAGC	CTTAGGTCTT	ATGGGGCAAA	4320
CCTATCAACC	CAATATGTTT	GTCGGCACCA	GCAATCTAGA	GTCTGCTATG	GAGAAACTGC	4380
GTTCAACCTT	TGGCGAATAT	GGCTTGGGTA	CTGCGACAGG	AATTGACCTA	CCAGATGAAT	4440
CTACTGGATT	TGTTCCCAAA	GAGTATAGCT	TTGCTAATTA	CATTACTAAT	GCCTTTGGGC	4500
AGTTTGATAA	CTATACGCCG	ATGCAGTTGG	CTCAGTATGT	AGCAACTATT	GCAAATAATG	4560
GTGTTCGTGT	GGCTCCTCGT	ATTGTTGAAG	GCATTTATGG	TAATAATGAT	AAGGGAGGAC	4620
TGGGTGACTT	GATTCAGCAA	CTGCAACCGA	CAGAGATGAA	TAAGGTCAAT	ATATCCGACT	4680
CCGATATGAG	CATCTTGCAC	CAAGGTTTTT	ATCAGGTTGC	CCATGGTACT	AGTGGATTGA	4740

CAACTGGACG	TGCCTTTTCA	AATGGTGCCT	TGGTATCCAT	TAGCGGAAAA	ACAGGTACAG	4800
CCGAAAGCTA	TGTGGCAGAT	GGTCAGCAAG	CAACCAATAC	CAATGCGGTG	GCCTATGCCC	4860
CATCTGATAA	TCCCCAAATC	GCTGTCGCAG	TGGTCTTTCC	TCATAATACC	AATCTAACAA	4920
ATGGTGTAGG	ACCTTCCATT	GCGCGTGACA	TTATCAATCT	GTATCAAAAA	TACCATCCAA	4980
TGAATTAGAA	AGGAAATTAT	GCTTTATCCA	ACACCTATTG	CCAAGTTGAT	TGACAGTTAT	5040
TCTAAGTTAC	CAGGTATCGG	GATTAAGACG	GCTACGCGTC	TGGCCTTTTA	TACGATTGGG	5100
ATGTCTGCTG	ATGATGTCAA	TGAATTTGCA	AAAAATCTCC	TTTCTGCTAA	GAGAGAATTG	5160
ACATATTGTT	CTATTTGTGG	ACGTTTGACA	GACGACGATC	CTTGTTCTAT	CTGTACTGAT	5220
CCGACTCGTG	ACCAGACAAC	AATTTTAGTT	CTTGAGGATA	GTAGAGATGT	GGCAGCCATG	5280
GAAAATATCC	AAGAATACCA	TGGACTCTAT	CATGTCCTTC	ATGGCCTCAT	TTCTCCTATG	5340
AATGGTATCA	GTCCGGACGA	TATCAATCTC	AAGAGCCTTA	TGACTCGTCT	TATGGATAGT	5400
GAGGTTTCAG	AAGTGATTGT	GGCGACTAAT	GCTACAGCGG	ATGGTGAAGC	GACTTCCATG	5460
TATCTTTCAC	GTTTGCTCAA	GCCGGCTGGT	ATCAAGGTTA	CGCGTCTAGC	ACGAGGTCTC	5520
GCTGTGGGAG	CGGACATTGA	GTATGCGGAC	GAAGTGACAC	TCTTACGAGC	CATTGAAAAT	5580
CGGACAGAGT	TGTAAGTGTA	GGCAAATTTA	CGAACTCCAT	TCATTTATAA	AAAATCAAAG	5640
AGGCTGAAAA	TCGTTCCTAT	CGGCCTCTTT	TTGTATAGTG	TGATGAGTAG	GCTCAGGTTC	5700
AAGTTTTAAA	AAACCAAGCA	AATATGATAT	ACTAAAGAGC	GAGTATTCTA	GTAGAATTAG	5760
GACAAATAAT	ATGAAACAAA	CGATTATTCT	TTTATATGGT	GGACGGAGTG	CGGAACGCGA	5820
AGTCTCTGTC	CTTTCAGCTG	AGAGTGTCAT	GCGTGCGGTC	GATTACGACC	GTTTCACAGT	5880
CAAGACTTTC	TTTATCAGTC	AGTCAGGTGA	CTTTATCAAA	ACACAGGAAT	TTAGTCATGC	5940
TCCGGGGCAA	GAAGACCGTC	TCATGACCAA	TGAAACCATT	GATTGGGATA	AGAAAGTTGC	6000
ACCAAGTGCT	ATCTACGAAG	AAGGTGCAGT	GGTCTTTCCA	GTCCTTCACG	GGCCAATGGG	6060
AGAAGATGGC	TCTGTTCAAG	GATTCTTGGA	AGTTTTGAAA	ATGCCTTACG	TTGGTTGCAA	6120
CATTTTGTCA	TCAAGTCTTG	CCATGGATAA	AATCACGACT	AAGCGTGTTC	TGGAATCTGC	6180
TGGTATTGCC	CAAGTTCCTT	ATGTGGCTAT	CGTTGAAGGC	GATGATGTGA	CTGCTAAAAT	6240
CGCTGAAGTG	GAAGAAAAAT	TGGCTTATCC	AGTCTTCACT	AAGCCGTCAA	ACATGGGGTC	6300
TAGTGTCGGT	ATTTCTAAGT	CTGAAAACCA	AGAAGAACTC	CGTCAAGCCT	TAAAACTTGC	6360
CTTCCGATAT	GACAGCCGTG	TCTTGGTTGA	GCAAGGAGTG	AATGC		6405

(2) INFORMATION FOR SEQ ID NO: 108:

794

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11309 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

CGAGCTCGGG TACCGGGATT	TTAAGGAGTT	TGATATGTAT	AACCTATTAT	ТААССАТТТТ	60
ATTAGTATTA TCTGTTGTGA	TTGTGATTGC	AATTTTCATG	CAACCAACCA	AAAACCAATC	120
CAGCAATGTA TTTGATGCCA	GTTCAGGTGA	TTTGTTTGAA	CGCAGTAAAG	CTCGCGGTTT	180
TGAAGCTGTA ATGCAGCGTT	TGACAGGGAT	TTTAGTCTTT	TTCTGGCTAG	CCATTGCCTT	240
AGCATTGACG GTATTATCAA	GTAGATAAGA	AAATAATGGG	CAGGACTAGG	TCTTTGCCTC	300
TTTTTATTTT TAAAGGATGT	TTGAGAAGGT	TTTACAGTAA	AAGAAAATTA	AAAAATCTAG	360
AAAGAAAATA TGAAAGATAG	AATAAAAGAA	TATTTACAAG	ACAAGGGAAA	GGTGACTGTT	420
AATGATTTGG CTCAGGCTTT	GGGAAAAGAC	AGTTCCAAGG	ATTTTCGTGA	GTTGATTAAA	480
ACCTTGTCCT TAATGGAAAG	AAAGCACCAA	ATTCGTTTTG	AAGAAGATGG	TAGTCTGACA	540
TTAGAAATTA AGAAAAAACA	TGAGATTACC	CTCAAGGGGA	TTTTTCATGC	ССАТАААААТ	600
GGCTTTGGCT TTGTTAGTCT	GGAAGGCGAG	GAGGACGACC	TTTTTGTAGG	GAAAAATGAT	660
GTCAACTATG CTATTGATGG	TGATACCGTC	GAGGTAGTGA	TTAAGAAAGT	CGCTGACCGC	720
AATAAGGGAA CAGCAGCAGA	AGCCAAAATT	ATTGATATCC	TAGAACACAG	TTTGACAACA	780
GTTGTCGGGC AAATCGTTCT	GGATCAGGAA	AAACCTAAGT	ATGCTGGCTA	TATTCGTTCA	840
AAAAATCAGA AAATCAGTCA	ACCGATTTAT	GTTAAGAAAC	CAGCCCTAAA	ATTAGAAGGA	900
ACAGAAGTTC TCAAAGTCTT	TATCGATAAA	TACCCAAGCA	AGAAACATGA	TTTCTTTGTC	960
GCGAGTGTTC TCGATGTAGT	GGGACACTCA	ACGGATGTCG	GAATTGATGT	TCTTGAGGTC	1020
TTGGAATCAA TGGACATTGT	ATCCGAGTTT	CCAGAAGCTG	TTGTTAAGGA	AGCAGAAAGT	1080
GTGCCTGATG CTCCGTCTCA	AAAGGATATG	GAAGGTCGTC	TGGATCTAAG	AGATGAAATT	1140
ACCTTTACCA TTGACGGTGC	GGATGCCAAG	GACTTGGACG	ATGCAGTGCA	TATCAAGGCT	1200
CTGAAAAATG GCAATCTGGA	GTTTGGGGTT	CACATCGCAG	ATGTTTCTTA	TTATGTGACC	1260
GAGGGGTCTG CCCTTGACAA	GGAAGCCCTT	AACCGTGCGA	CTTCTGTTTA	CGTGACAGAC	1320
CGAGTGGTGC CAATGCTTCC	AGAACGACTA	TCAAATGGCA	TCTGCTCTCT	CAATCCCCAA	1380
GTTGACCGCC TGACCCAGTC	TGCTATTATG	GAGATTGATA	AACATGGTCG	TGTGGTCAAC	1440
TATACCATTA CACAAACAGT	TATCAAGACC	AGTTTTCGTA	TGACCTATAG	CGATGTCAAT	1500

GATATCCTAG	CTGGCGATGA	AGAAAAGAGA	AAAGAATATC	ATAAAATTGT	ATCAAGTATC	1560
GAACTCATGG	CCAAGCTTCA	TGAAACTTTA	GAAAACATGC	GTGTGAAACG	TGGAGCTCTC	1620
AATTTTGATA	CCAATGAAGC	GAAGATTTTA	GTGGATAAAC	AAGGTAAGCC	TGTTGATATC	1680
GTTCTTCGGC	AGCGTGGTAT	TGCCGAGCGG	ATGATTGAGT	CTTTTATGTT	GATGGCTAAT	1740
GAAACAGTTG	CCGAACATTT	CAGCAAGTTG	GATTTGCCTT	TTATCTATCG	AATTCACGAG	1800
GAGCCTAAGG	CTGAAAAGGT	TCAGAAGTTT	ATTGATTATG	CTTCGAGTTT	TGGCTTGCGC	1860
ATTTATGGAA	CTGCCAGTGA	GATTAGTCAG	GAGGCACTTC	AAGACATCAT	GCGTGCTGTT	1920
GAGGGAGAAC	CTTATGCAGA	TGTATTGTCC	ATGATGCTTC	TTCGCTCTAT	GCAGCAGGCT	1980
CGTTATTCGG	AGCACAATCA	CGGCCACTAT	GGACTAGCTG	CTGACTATTA	TACTCACTTT	2040
ACCAGTCCAA	TTCGTCGTTA	TCCAGACCTT	CTTGTTCACC	GTATGATTCG	GGATTACGGC	2100
CGTTCTAAGG	AAATAGCAGA	GCATTTTGAA	CAAGTGATTC	CAGAGATTGC	GACCCAGTCT	2160
TCCAACCGTG	AACGTCGTGC	CATAGAAGCT	GAGCGTGAAG	TCGAAGCCAT	GAAAAAGGCT	2220
GAGTATATGG	AAGAATACGT	GGGTGAAGAG	TATGATGCAG	TTGTATCAAG	TATTGTCAAA	2280
TTCGGTCTCT	TTGTCGAATT	GCCAAACACA	GTTGAAGGCT	TGATTCACAT	CACTAATCTG	2340
CCTGAATTTT	ATCATTTCAA	TGAGCGTGAT	TTGACTCTTC	GTGGAGAAAA	ATCAGGTATC	2400
ACTTTCCGAG	TGGGTCAGCA	GATCCGTATC	CGTGTTGAAA	GAGCGGATAA	AATGACTGGA	2460
GAGATTGATT	TTTCATTCGT	ACCTAGTGAG	TTTGATGTGA	TTGAAAAAGG	CTTGAAACAG	2520
TCTAGTCGTA	GTGGCAGAGG	GCGTGATTCA	AATCGTCGTT	CGGATAAGAA	GGAAGACAAG	2580
AGAAAATCAG	GACGCTCAAA	TGATAAGCGT	AAGCATTCAC	AAAAAGACAA	GAAGAAAAA	2640
GGAAAGAAAC	CTTTTTACAA	GGAAGTAGCT	AAGAAAGGAG	CCAAGCATGG	CAAAGGGCGA	2700
GGGAAAGGTC	GTCGCACAAA	ATAAAAAGGC	ACGCCACGAC	TATACAATCG	TAGATACGCT	2760
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TCTCAAGGAT	GGCTTTGCTC	AAGTGAAAAA	TGGAGAAGTT	TGGCTGAGCA	ATGTTCATAT	2880
CGCGCCTTAC	GAAGAGGCA	ATATCTGGAA	CCAGGAACCA	GAACGTCGTC	GTAAACTCCT	2940
GCTCCATAAA	AAGCAAATTC	AAAAATTGGA	ACAAGAGATC	AAAGGGACAG	GAATGACCTT	3000
AGTTCCCCTT	AAGGTCTATA	TAAAAGATGG	CTACGCTAAG	CTTCTTTTAG	GACTTGCCAA	3060
AGGGAAGCAT	GACTATGACA	AACGGGAGTC	TATCAAACGT	CGTGAGCAAA	ATCGAGATAT	3120
CGCGCGTGTG	ATGAAAGCTG	TTAATCAGCG	ATAAAAAGAG	GAATTGAAAA	TGGAAAAATT	3180
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GTTTATTGAA	TTGACAGAAG	AAGGGGAAGT	TCTAGCTGAA	CACCTCTTTG	AAGCAGGGGC	3360
AGACAATCCA	ATGGCCCAAC	CTCAAGCCTG	GCACCGAGTG	GAAGCTGCCA	CAGATGATGT	3420
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CAATCCTGTT	CATTCAGAGG	TCCTAGAGGC	CATGCAGACA	GTGAAACAAG	GGAAAGCTTT	3540
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GACGGCTGTA	GATCAAAATG	GACTAGCTCT	TGAAATCTTG	CAAAGCATTG	TGGAGCAGGA	3660
AGATTTGGAC	ATGCCTGTTG	GCCTTTACGA	TATCAATTCA	GCTAGCATTG	AACAAGAATA	3720
TGATTTTATC	GTTTCAACAG	TTGTTCTCAT	GTTTCTACAA	GCGGACCGCA	TTCCAGCTAT	3780
TATTCAAAAT	ATGCAGGAGA	AAACCAGTGT	TGGTGGTTAC	AACCTTATCG	TTTGTGCCAT	3840
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GGCAGACTAT	TACAAGGATT	GGGAATTGGT	TAAGTACAAT	GAAAATCCAG	GCCATTTGCA	3960
CCGTCGCGAT	GAGAATGGCA	ATCGTATTCA	ACTACGCTTT	GCGACCTTAC	TAGCTAAGAA	4020
AATCAAGTAA	ACACACATGA	AGATTAGGAA	TTTTCCTGAT	CTTTTTTCTT	TTTTACGAAT	4080
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ACTCAAATAC	CTGATTTACC	AGGATCTCCG	CGGTAAACTC	CATTATCAAA	TCAAGGAATT	4680
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TTATCAAAAT	CTCTTTTGGA	TGAAAGAACA	AGCAGAAGCC	TATCAAAAGG	GAGAAAATAT	4860
CCTGACTTAT	GGACTGAAAG	AATGGTATCC	ACAAATTCGA	CCAATAGTGG	GCAAATTTTT	4920
CCAGATTGAA	CAAGACTTGA	CTAGCTATTA	TCAGCACTTT	TATACCTATT	АССАААААА	4980
TCCTCAAAAT	GATTGGCAAA	AGCTTTATCC	ACCAGCCTTT	TATCAGCAAT	ATTTCTTGAA	5040

AAATATGGTA	GAATAGAAAG	GATGGAGGAA	TCTAATGGTA	TTACAAAGAA	ATGAAATAAA	5100
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CTTAAAAGAT	TTAACAGAAC	AATTGGAGAC	AGTAGCCCAG	TATGAAGGCC	ATCTCTTGGA	5220
TAGTGCGGAT	AACCTACTAG	AAATCACTGA	ATTTTCTCTT	GAAATGGAAC	GCCAGATAGA	5280
GAAGCTTTAC	GCTTATGCTC	ATATGAAGAA	TGACCAGGAT	ACACGTGAAG	CTAAGTATCA	5340
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TTCACAACGT	GAAGAAGAAT	TATTGGCTGG	AGCTGGAGAA	ATCTTTGGTT	CAGCAAGTGA	5580
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GGTTCGCCGT	GGTGCCTATC	AAGCTCTTTA	TGCGACTTAC	GAACAATTCC	AACACACCTA	5760
TGCCAAAACC	TTGCAAACCA	ATGTTAAGGT	GCAAAATTAC	CGTGCTAAAG	TTCGTAACTA	5820
CAAGAGTGCT	CGTCATGCAG	CCCTCGCAGC	GAATTTTGTT	CCAGAAAGTG	TTTATGACAA	5880
TTTGGTAGCA	GCAGTTCGCA	AGCATTTGCC	ACTCTTACAT	CGCTATCTTG	AGCTTCGTTC	5940
AAAAATCTTG	GGGATTTCAG	ATCTCAAGAT	GTACGATGTC	TACACACCGC	TTTCATCTGT	6000
TGAATACAGT	TTTACCTACC	AAGAAGCCTT	GAAAAAAGCA	GAAGATGCTT	TGGCAGTCTT	6060
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CGAAAATCAA	GGCAAGCGTT	CAGGTGCCTA	CTCTGGTGGT	TCTTATGATA	CCAATGCCTT	6180
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TCACAGTATG	CATTCAAGCT	ATACTCGTGA	AACTCAGCCT	TATGTTTACG	GGGATTACTC	6300
TATCTTTTTG	GCTGAGATTG	CCTCAACTAC	CAATGAAAAT	ATCTTGACGG	AGAAATTATT	6360
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CCGTGGAACA	GTTTTCCGCC	AAACTCAATT	TGCTGAGTTT	GAACACGCCA	TTCACCAAGC	6480
AGATCAAAAT	GGGGAGGTCT	TGACAAGCGA	TTTCCTAAAT	AAACTCTACG	CAGACTTGAA	6540
CCAAGAGTAT	TATGGTTTGA	GTAAGGAAGA	CAATCCTGAA	ATCCAATACG	AGTGGGCTCG	6600
CATTCCACAC	TTCTACTATA	ACTACTATGT	ATATCAATAT	TCAACTGGCT	TTGCGGCCGC	6660
CTCAGCCTTG	GCTGAAAAA	TTGTCCATGG	TAGTCAAGAA	GACCGTGACC	GCTATATCGA	6720
CTACCTCAAG	GCAGGTAAGT	CGGACTATCC	ACTTAATGTC	ATGAGAAAAG	CTGGTGTTGA	6780

			798			
TATGGAGAAG	GAAGACTACC	TCAACGATGC	CTTTGCAGTC	TTTGAACGCC	GTTTAAATGA	6840
GTTTGAAGCC	CTTGTTGAAA	AATTAGGATT	GGCATAAAAT	GGTTGAATCG	TATAGTAAGA	6900
ATGCTAACCA	TAACATGCGT	CGTCCTGTCG	TCAAAGAAGA	AATTGTAGAC	TTGATGCGTC	6960
AGCGTCAAAA	GCAGGTCACA	GGTTTCTTGA	AAGAATTGGA	AGACTTTGCC	CGCAAGGAAA	7020
ATATTCCTAT	TATTCCCCAT	GAAACGGTTG	CTTATTTCCG	TTTTCTTATG	GAAACCATGC	7080
AGCCTAAAAA	TATTCTGGAA	ATTGGGACGG	CTATCGGTTT	TTCAGCTCTC	TTGATGGCTG	7140
AACATGCGCC	AAATGCTAAG	ATTACAACTA	TTGATCGTAA	TCCAGAAATG	ATTGGTTTTG	7200
CCAAGGAAAA	TTTTGCCCAG	TTTGACAGTC	GCAAGCAAAT	CACTCTCCTA	GAGGGAGATG	7260
CGGTGGATGT	CTTATCTACA	CTGACAGAGT	CTTATGATTT	CGTCTTTATG	GATTCTGCCA	7320
AGTCTAAATA	CATCGTCTTT	CTGCCAGAAA	TCCTCAAACA	TTTGGAAGTT	GGTGGTGTGG	7380
TTGTCTTGGA	TGATATTTTT	CAAGGTGGTG	ATGTTGCCAA	GGATATTATG	GAAGTCCGTC	7440
GTGGTCAGCG	AACCATTTAT	CGAGGCCTTC	AAAAATTATT	TGATGCAACC	TTAGACAATC	7500
CAGAACTCAC	CGCAACATTA	GTGCCTTTAG	GAGATGGTAT	TCTCATGCTT	CGTAAAAATG	7560
TAGCAGATGT	TCAACTGTCT	GAAAGCGAAT	GATTTTCAGA	AAAATTTAAG	AAAAAATAGT	7620
AAAATAGATA	GAGTAACACT	TATCTCAAAG	GAGTAGACAT	GAAGAAAAA	TTATTGGCAG	7680
GTGCCATCAC	ACTATTATCA	GTAGCAACTT	TAGCAGCTTG	TTCGAAAGGG	TCAGAAGGTG	<b>774</b> 0
CAGACCTTAT	CAGCATGAAA	GGGGATGTCA	TTACAGAACA	TCAATTTTAT	GAGCAAGTGA	7800
AAAGCAACCC	TTCAGCCCAA	CAAGTCTTGT	TAAATATGAC	CATCCAAAAA	GTTTTTGAAA	7860
AACAATATGG	CTCAGAGCTT	GATGATAAAG	AGGTTGATGA	TACTATTGCC	GAAGAAAAA	7920
AACAATATGG	CGAAAACTAC	CAACGTGTCT	TGTCACAAGC	AGGTATGACT	CTTGAAACAC	7980
GTAAAGCTCA	AATTCGTACA	AGTAAATTAG	TTGAGTTGGC	AGTTAAGAAG	GTAGCAGAAG	8040
CTGAATTGAC	AGATGAAGCC	TATAAGAAAG	CCTTTGATGA	GTACACTCCA	GATGTAACGG	8100
CTCAAATCAT	CCGTCTTAAT	AATGAAGATA	AGGCCAAAGA	AGTTCTCGAA	AAAGCCAAGG	8160
CAGAAGGTGC	TGATTTTGCT	CAATTAGCCA	AAGATAATTC	AACTGATGAA	AAAACAAAAG	8220
AAAATGGTGG	AGAAATTACC	TTTGATTCTG	CTTCAACAGA	AGTACCTGAG	CAAGTCAAAA	8280
AAGCCGCTTT	CGCTTTAGAT	GTGGATGGTG	TTTCTGATGT	GATTACAGCA	ACTGGCACAC	8340
AAGCCTACAG	TAGCCAATAT	TACATTGTAA	AACTCACTAA	GAAAACAGAA	AAATCATCTA	8400
ATATTGATGA	CTACAAAGAA	АААТТАААА	CTGTTATCTT	GACTCAAAAA	CAAAATGATT	8460
CAACATTTGT	TCAAAGCATT	ATCGGAAAAG	AATTGCAAGC	AGCCAATATC	AAGGTTAAGG	8520
ACCAAGCCTT	CCAAAATATC	TTTACCCAAT	ATATCGGTGG	TGGAGATTCA	AGCTCAAGCA	8580

GTAGTACATC	AAACGAATAG	TCCAAATCAA	TGAGTCAGGG	AAAAAACTCG	ACTTCAGGAA	8640
AAAATGAAGC	AAACATTCCC	ACAATAAAAC	GCATAGTACA	AGGTTTGTAC	TGCCCCCAA	8700
AAAGTTAGAC	AATTAATTTA	TCCGAAGGAT	TTAGTTCTGT	ATTGCACAGA	GCTAAGTCCT	8760
TTTAGTTTTA	TCTTAATTCT	CTTATTGTTG	TAATAATCAA	TATAGTCTAT	AATGGCTCGT	8820
TCCAATTGAT	TAAGTGATTT	AAATGTTTTC	TCATAGCCAT	AAAACATTTC	GGATTTTAAA	8880
ATGCCAAAGA	AAGATTCCAT	CCTACCGTTG	TCTTGGCTGT	TGCCCTTACG	TGACATGGAT	8940
GCTTGAATTC	CCTTACTCTC	TAGGAAGCGA	TGATAAGAAT	CGTGTTGATA	TTGCCAGCCT	9000
TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	TGCTTCTCTT	TGAATGCCTG	TTCCAACATT	9060
AACGATCAAT	CAATTTAATC	ATGTACCTAA	GATTAGAATT	GTTTATCCCA	AATTTATTTG	9120
AAAGCTTCTC	TAAGCTATAT	CCTTGTTTTC	TAAGTTCATA	GATCTGAACT	TTATCATCAT	9180
AAGTTAATTT	CATAATAAAA	ACACCCCAAA	AGTTAGATTT	TTTCTGTCTA	ACTTTTGGGG	9240
TGTAGTTCAT	GTACACCTGA	TATGATGCGT	$\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{A}\mathbf{T}\mathbf{A}\mathbf{T}\mathbf{T}\mathbf{T}$	TAAAGACTTT	TTGACCAGCC	9300
TCATTTTTTT	AACTTGATAC	TCAGTGAAAA	GCAAAGATTA	AACTAGGAAG	CTAGCTGTAG	9360
GCTGCTCAAA	GAACAGCTTT	GAGGTTGTAG	ATAAAACTTG	TGAGGTCACC	AACATATATA	9420
ATGTGAAGCT	GACGTGGTTT	GAATAGATTT	TAGAAGAGTA	TGAGTCTGGA	AGTTTTAATG	9480
GATAATGCAA	GATTCCATAG	AATGGGTAAG	CTAGAGTTCT	TATGTGAAGA	GTTTGGGCAT	9540
AAACTTTTAC	CTTTTCCTCC	CTACTCATCT	TAGTATAGAA	AAGTGAATCT	GAAATAGTAC	9600
ATAACTGCTT	CTAAAACATT	CTTATAAATT	GATTTAAATT	CTCAAATCAT	ATTATTCAGT	9660
TCTTATTTCA	TTTTGTTCTA	CAATCCTGTT	GAGAAGACAC	GTGTTCATAT	CAAAAAGGTA	9720
TTGGCAAGTT	GCAATACCTT	TTTACGAGGC	TCTGTTGTCT	TATTTTTGTT	TCAACTGACT	9780
ATATCTCCTA	TGGTTCTAGT	TCAGAAGGCT	AGGCTATAAT	TATGATTGAT	AAGAAGTATC	9840
ATTCCAAGTA	TTGGGAGTGA	ATGTTTCAAA	ATCATGGGTT	TCTATAATGG	TCAGGCTGGC	9900
ATTTGCTAGA	CCGCCATCTT	TACGAAGAAG	TGGTTCTTTA	TAGCCTAGGA	GAGTACGAAG	9960
ACTGGCAGTA	AGATTGGCGC	CGTGTCCGAC	AATTAGAATA	CGTTCAGCTG	GACTATCTTT	10020
TAATGATTTG	ATAAATTGGA	TGGTCCGTTG	AGTTGTACTA	TAGAGGGATT	CGGCTCCGAA	10080
CATTCGAGTG	TCAAATTGAG	CAAGATTTGA	ACGAAAAGCC	TGGATTTGTT	GCGGGTAAAT	10140
AGCTTCCAAG	GTTGCAATTT	TCAAACCTTC	TAACTTCCCA	AGTTGCCATT	CACGGAGATT	10200
AGGAACGATT	TCTAAAGAAC	AGGGGGTATA	GAGTTGACTT	TGGATAATCT	CAGCAGATTT	10260
GACCGCTCGA	GGTAAATCAC	TTGAATAAAT	CTGATCAAAA	GGAATTTCCT	TGAGATACTG	10320

			800			
ACCAAGTCGT	TTTAGGGTTT	CAATGGATTC	AGGAAGAAGA	GGAGAATCAC	CACTAGCACC	10380
TTGAAAACGA	CCTTCTTGGT	TCCAGAGGGT	ACGACCGTGG	CGGACAAAGT	AGAGTTTCAT	10440
TACTTGATGT	CCTCCAAAAT	ATCTACAAAG	TCTGCCTTTA	CAAAGCTAGC	CAAGTCTTGT	10500
GGCGCGACGA	TAATGCTGTG	TCCGACTTCG	CCTGCAGAGA	CAATCATTTG	ATCCAAATCT	10560
AGAGCAATTT	TATCGATAAA	AATGGGATAA	TTGTGTTTCT	GACGAATTCC	GACAGGATTA	10620
TTGGCTCCAT	GAATGTAACC	AGTTGTTTTT	TCTAAGTCCT	TTTGTGGAAT	CATGCTCACT	10680
TTTTTATTGC	CAGAAATTTT	AGCTAGTTTC	TTTTCAGACA	AGTGCTGAGT	GATAGGGACA	10740
ATTCCGATAA	TCGGTCCGGT	CTTGTCTCCC	AAAAGCGCCA	AGGTTTTGAA	AATCTGATCT	10800
CGTTCATAAC	CTTGAGGAAG	CTCTCCTTCT	AGGGCATTGA	TTTGAATCCC	CTGATGAGGG	10860
ATAGCTGCTT	TAGATAGGAT	TTGTTCCACC	AATGTTTTTT	TGATTTTAAC	TTTTTTTGCC	10920
ATTATTTATA	TTTATCCTCC	AATTGACTCA	TCCAAATACC	AAGCCAGATT	CCCAGCGCAA	10980
AGAAGAAGGC	GATGATGACA	TAACCGACAA	GTGAAAGTCC	TGTGTATTGG	ATACTTTCAG	11040
CGTTTCCTGC	ATTTGGAATT	AAGATCAAAA	GGGTACTTGA	TAGGACGATA	CCGATGATGA	11100
AATGATAGAC	GAACTGTTTA	CGGAGTTCTT	CTAGTTCTCC	GTCCGTCCAA	GCGTAGGCCA	11160
CTTCTTCTTT	CTTGCCTTTA	CCTTTGGACA	TCTTGTAAAG	AGGTGGGAGG	GCAATATAGA	11220
CATGACCTGC	CTCGACTAGC	GGACGCATGT	AACGGTAGAA	AAATGTCAAG	AGCAAGGTCT	11280
GGATATGGGC	ACCGTCGGTA	TCCGCATCG				11309

# (2) INFORMATION FOR SEQ ID NO: 109:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

CCATAGTCTA ACAAGTCTTT	GTAAAGGTTT	ATCCCTGATT	CATGTAAAGA	TTGTGTAAAG	60
AATCAAAAAA AGCCACTTTT	GAAAAATGGC	TGCTCCTAAA	AATAGCTTTA	AAAATTATTA	120
GTCCTGTGCG AAAGATTGGT	TAGGAAGAAA	AATCGTGAAG	CAACTGCCTC	TGCCAAGCTG	180
ACTCGTCACC GTGACTTGGC	CACCTAATAA	TTGACTGAGT	TCTTTGACAA	TGGCAAGGCC	240
AAGACCAGTG CCACCAGTTT	GTCTGCTTCG	ACCTTTATTA	ACTCGGTAAA	AACGTTCAAA	300
AATACGATCC TGCTCTAATT	GACTAATACC	AATCCCTGTA	TCTGATACAG	AAATCTTAAT	360
GCCTTCGTTC ACCTTTTGGG	TCTTGACCTC	AATTTTTCCC	CCTTGTTCAG	TGTAACGGAT	420

GGCATTGGAT AAA	AGATTGA GTA	AGATTTG	GGAAAGTAAT	TGACTATCTG	ATACGAGGGT	480
GACATCATCT GGC	CACCTGCA CCT	TTAGCTG	TAAATCCTTC	TTCTTGAGCT	GAGGTTGCAA	540
GCTTTGAGTC AAA	TCCTGTA CAA	ATTCTGC	CAAAGAAAGG	GTCGTCCATT	GTATAGGCAT	600
TTGTTGAGCC TTA	GATAAGG TAA	GAAGATG	CTCAACAATA	TGCTCAAGAC	GCAAACTTTC	660
TTTGTAAATA ATG	TCTAGAA AGT	CATCCTT	GAGCGCTTCT	TCTTCAGCTG	ACATCCCCTT	720
AATGGTTTCA GCA	AAGCCCT TAA	TCGAAGT	AACTGGTGTC	CTCAATTCAT	GGGAGGCATT	780
TGAGACAAAG GCT	AAATTTA ACT	TTTCATA	AGTTCTAATC	GTTGTTAAAT	CATATAGCAA	840
GACGAGCACA GCI	TCCACAG ATT	GGGTGGG	GCTAAAAACG	GGAACTGCTG	TCACTTCTAA	900
AATCAAGTCA CCC	TCATGAA ACC	CACTTAC	TTCTTGTTTT	AACCTTGTTT	TTTGATCAAA	960
GGCTTGGTGA ACT	AAATTCC GAA	TATCCAT	CCGTTTGAGG	TCATCAAGTG	AACTTATGTC	1020
GCCGTCCACA TCG	GGAAAAT AAT	GAGGCAG	AGAGCGACTG	GATAATAACA	TCTGACCTTG	1080
AGCGGAAACT AAA	AACGTCC CCA	TGGTTAG	GTGCGACAGA	AGAACCTCCA	TTGTTTCGGC	1140
TAGATCCTTG TAT	TGCTGAT CCT	GTTGGGA	GACTTTGGTT	TTTAGGCCAG	ACACATACTG	1200
AGCCAAAGAC TTT	AAGTCTT CTT	GCCCTTT	TTCTAAAAAG	TATTCACTAC	TGGTCAAGAG	1260
AGGTTGGTGC AAG	GTCTCAA AAG	CAACTTC	CCATTTCCAA	AGGCAAAAGA	GCCAGTAGCC	1320
ACCTAGTCCC AAA	GAAAGGG CTA	GAAGAAA	GAGACCGATG	CCTTTACTGA	TCCAAGTTAA	1380
TGCCATCCCT GCA	ATCAGAA TGA	GGCTAAC	ACTTAGATTG	ACTAGCCAAA	ATTGAAGGTA	1440
GCGTTTCATC TAT	AACTCCT TGA	ACTTATA	ACCATAACCC	CGAATGGTTC	GAATAAATTG	1500
AGGGGCTTTA GGA	TTGTCTT CAA	TTTTTTC	CCTCAACTTA	CCAATATGAA	CGTCCACCAA	1560
ACGTGTTTCC TGC	CCAAAGT CAT	ACCCCCA	GATACGTTCC	AAAAGACGCT	CTCTAGTCAG	1620
TGTCATGTTG GGA	TGTTTCA TAA	GATAGAG	CAAGAGTTCA	AATTCTTTTG	GGGTCAAACT	1680
CAGTAACTTA TTC	GCCTTGT AGA	CTTCATG	ACGCTCAGGG	ТАТАСТТТСА	AGGTCCCAAA	1740
TAGCCAAGAA TCG	TCAGCGA TAT	TATCTGA	ATCATCTCCT	TCTTGTTCTC	CTTTAGTTCG	1800
CCTGAGGACA GCC	TTGACAC GCG	CCAGCAA	TTCTCTAGGG	CTAAAAGGCT	TGGTCAGGTA	1860
GTCATCAGCC CCT	AATTCCA AGG	CCAAAAC	CTTATCAAAT	TCATCACTTT	TCGCAGAAAC	1920
CATCATAATT GGA	GTTTTGA CGC	CTTTGGC	TCTCAGCCGC	ттасааастт	CCATGCCATC	1980
TAATTGTGGT AAC	ATGATAT CAA	GCAAGAT	AAAATCAAAG	GGTTCTGTTT	CTGCCAAAGC	2040
TAAGGCCTTC CGT	CCATTTG TCA	CCAATTG	AGTAGAAAAG	CCTTCCTTAC	TTAAATGGTA	2100
GTCAAGCAAT TTC	AGAATGT GTT	CTTCATC	ATCCACTAAT	AAGACTTGTT	TTGTCATCTA	2160

			802			
TTATCTCCTA	TTGGTAACAT	TATAACACAA	TTATCAGAAA	TCCTAACATT	GCTAAATCAG	2220
ATTAAATTTG	CCTATCAAGA	CTAGTATCTG	GTCAAACGCT	CAATCATCTC	CTTGTGCTCT	2280
GGATAGGTCG	CCAGTAGATC	TACCCTTTCA	AATAATTCAA	AATCCTCAAA	TTCAAAACCA	2340
GGAGCAACAA	GACAAGAAAC	CAGAGCATCA	TCCTTATCAA	CTGTTGATCC	CCAAATAGTG	2400
CCCTTAGGAA	CACAGTAGTG	AAGTTGTTGC	CCTTTGGATA	TGTCCAGGCC	TAAAGTGACT	2460
GCTTCGTAGT	GACCATCTGC	TGTAATCATG	TGAACAGTAA	GTGGGGATCC	TGCATGAAAA	2520
TACCAGATTT	CATCTGCTGT	CAATCGGTGA	AAATGTGAAG	GATTCGTTTC	TTCTAATAAG	2580
АААТАААТАС	TGGTATAAAG	CGCCCTTCCC	TTACCAGCAA	GGTTTATAGT	GTCTGAAGCT	2640
TTTTTTGTTT	GTCTAAAATA	GCCACCTTCA	ATATGGGGAG	CTAACTCTAG	AGTTCTTATC	2700
AAGTCTTCTT	TATCCGTCGG	AGCCAATGGG	TTGAAGTAAC	TCTTGTTCAA	AGTGGTTTTA	2760
CGATTTCAAG	AACTCCTCTC	AGTTCTGAGG	ACACGGTAAT	GATTGATGCG	ACGGAAGTAC	2820
AAATCAATCG	CCCTAAAAAA	AGAATTAGCG	AATGATTCTG	GTAAAAAAAA	TGCCACGCTA	2880
TGAAGGCTCA	AGCGATTGTC	ACAAGTCAAG	GGAGAATTGT	TTCTTTGGAT	ATCGCTGTGA	2940
ACTATTGTCA	TGATATGAAG	TTGTTCAAAA	TGAGTCGCAG	AAATATCGGA	CAAGCTGGTA	3000
AAATCTTGGC	TGACAGTGGT	TATCAAGGC	TCATGAAGAT	ATATCCTCAA	GCACAAACTC	3060
CACGTAAATC	CAGCAAACTC	AAGCCACTAA	CAGTTGAAGA	TAAAGCCTAT	AACCATGCGC	3120
TATCCAAGGA	GAGAAGCAAG	GTTGAGAACA	TCTTTGCCAA	AGTAAAAACG	TTTAAAATGA	3180
TTTCAACAAC	CTATCGAAAT	CATCGTAAAC	ACTTCGGATT	ACGAATGAAT	TTGATTGCTG	3240
GCATTATCAA	TCATGAACTA	GGATTCTAGT	TTTGCAGGAA	GTCTATTATT	TGGTTAGGTG	3300
AATTAGTGAA	GCGTTTAGGC	AAGTGTCTCT	GGTTACGACG	TCATGGACTC	TAAATCGATT	3360
ATATTTAGGG	GTCATGACTA	GTGAAGCAGT	TAGCTAGTTC	GCATATAAGC	GGCTAGCGTC	3420
TAACAATTAG	GAACTTTAGT	TCCAATAACT	TTAAGATTAC	GACGTTTTAG	GACATAAATC	3480
GATCATATTT	ATGTCCTAAA	ACTAGTGAAG	CGCCTAGCCA	AAGTCCGAAT	AGGATTTGGC	3540
GTTAGTTACT	TAGATTGCTT	TGCAATCAAG	TAACTTTGGC	GATTTACATC	TTCTCTGGCG	3600
CTTCTACTCC	AAGCAAGCGA	AGGGCTTCTT	TGAGAACGAC	TGCGGTTGCG	TAGCTGAGGG	3660
CTAGACGGCT	GTCGCGTTCT	GGGCTTTCAT	CCAAGATACG	TGTATGTGCA	TAGTATTTGT	3720
TAAAGGATTG	AGCCAGGCTA	ATTGCAAATT	TAGCAATGAT	AGAAGGTTCA	AAGTTATCTG	3780
CCGCACGGTT	GATAATACGT	GGGAAGTCTT	GAATGAGTTT	AATGATTTCC	CAGCTTTCAG	3840
TATCATTCAA	GCTATAGTTG	CCAGCTGTTT	CTGGTTTGAA	ATCGGCTTTG	CGTAAGATAG	3900
ATTGGATACG	AGCGTAGGCA	TATTGAACGT	AAGGTCCAGT	TTCACCCTCG	AAGGATACCA	3960

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TAGCCTCTAG	GTCGAAGTCG	TATCCATTTG	TACGGTCGGT	TTTGAGGTCA	TAGAATTTAA	4020
TGGCTCCAAT	CCCAACAGCA	TGTGCTACTT	GGTCTTTGTT	TTCTAGTTCA	GGATTTTTAG	4080
CCTCGATTTG	GACCTTGGCA	CGGCTAACAG	CCTCTGCAAC	AGTAGGCTCT	AGCAAGATGA	4140
CATTCCCTTT	ACGAGTAGAG	AGTTTCTTCC	CTTCTTTTGT	AACCAAACCA	AAAGGAACGT	4200
GAGTAATGTC	GTCACTCCAG	TCGTAGCCCA	TCTCTTGCAA	GACAGCTTTG	AGCTGTTTAA	4260
AGTGGGCAGA	TTGTTCTTGA	CCAACGACAT	AGATAGATTT	AGCAAATTGG	TATTCGTTTT	4320
TACGGTAGAG	GGCTGCAGCC	AAGTCACGTG	TGATATAGAG	AGTTGCACCA	TCAGACTTCT	4380
TGATGAGGGC	TGGATGTTCA	ATTCCATATT	TCTCAAGATT	CACAACTTGG	GCACCTTCTG	4440
ATTCAAGAAG	TAGTCCTTTT	TCAGAAAGAA	TGTCTACAAC	TGCATCCATC	TTATCATTGT	4500
AGAAGGCTTC	TCCGTTATAG	CTGTCAAATT	CAACCTTCAA	TTCATTGTAA	AGGCGGTTAA	4560
ATTCCACTAA	ACTTTCATCG	CGGAACCATT	GCCAAAGAGC	GAGAGCTTCC	TCATCTCCAT	4620
TTTCAAGTTT	ACGGAACCAT	TCGCGCGCTT	CTTCATCCAA	GCTAGGGTCA	TTTTCAGCTT	4680
CAGCGTTGAT	GCGGACATAG	AGTTTAAGGA	GTTCATCGAT	TGGATGAGCT	TTTACAGCTT	4740
CTTCGTCGCC	CCATTTTTTG	TAGGCAACAA	TCAACATCCC	AAATTGTTTA	CCCCAGTCTC	4800
CCAAATGGTT	GACCTTGACC	GTTTGATAAC	CGATTTTTTG	GAAAATATGT	GACAAGCTAT	4860
CTCCGATAAC	AGTTGAACGC	AGGTGGCCAA	TAGAAAATGG	TTTAGCGATA	TTCGGACTAG	4920
ACATGTCGAT	AACAACATTT	TCTTGTTTAC	CAATATTTTG	GTCAGCATAG	TGTTCTTTTT	4980
CAGTGGTAAC	AGCTTGCAAT	ACTTGAGCAG	AAATGGCAGA	TTTATCAAGG	AAAAAGTTAA	5040
CGTAAGGTCC	TGTTGCGACA	ACTTTTTCAA	AGGCTTGGCT	GTTCATTTTT	TCAGCCAGTT	5100
CAGCCGCAAT	CATTTGTGGT	GCTTTACGTT	CGACTTTTGC	AAGAGAAAAA	GCAGGGAAAG	5160
CAATGTCTCC	CATTTCTGAG	TTTTTAGGGG	TTTCCAGTAA	СТТТААААТА	GCCTCTTGGT	5220
CCAGGCTATC	AATGATGCTA	GATAATTCGC	TAGCAATCAA	TTCTTTTGTA	TTCATTAAGA	5280
GCTCCTTTTT	GGACTTTTCT	ACTATTTTAT	CACAATTTTA	AAGAAAGAAG	TTTTAAAAAA	5340
TGAAATCTCC	TGTTTTTTTG	GTATAATATG	GTTATAAATA	TAGTTATAAA	TATGCACGCA	5400
AGAGGATTTT	ATGAGAAAAA	GAGATCGTCA	TCAGTTAATA	AAAAAAATGA	TTACTGAGGA	5460
GAAATTAAGT	ACACAAAAAG	AAATTCAAGA	TCGGTTGGAG	GCGCACAATG	TTTGTGTGAC	5520
GCAGACAACC	TTGTCTCGTG	ATTTGCGG				5548

# (2) INFORMATION FOR SEQ ID NO: 110:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3132 base pairs

804

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

TACCCGGTAG TCTTAGCAGA	CACATCTAGC	TCTGAAGATG	CTTTAAACAT	CTCTGATAAA	60
GAAAAAGTAG CAGAAAATAA	AGAGAAACAT	GAAAATATCC	ATAGTGCTAT	GGAAACTTCA	120
CAGGATTTTA AAGAGAAGAA	AACAGCAGTC	ATTAAGGAAA	AAGAAGTTGT	TAGTAAAAAT	180
CCTGTGATAG ACAATAACAC	TAGCAATGAA	GAAGCAAAAA	TCAAAGAAGA	AAATTCCAAT	240
AAATCCCAAG GAGATTATAC	GGACTCATTT	GTGAATAAAA	ACACAGAAAA	TCCCAAAAAA	300
GAAGATAAAG TTGTCTATAT	TGCTGAATTT	AAAGATAAAG	AATCTGGAGA	AAAAGCAATC	360
AAGGAACTAT CCAGTCTTAA	GAATACAAAA	GTTTTATATA	CTTATGATAG	AATTTTTAAC	420
GGTAGTGCCA TAGAAACAAC	TCCAGATAAC	TTGGACAAAA	TTAAACAAAT	AGAAGGTATT	480
TCATCGGTTG AAAGGGCACA	AAAAGTCCAA	CCCATGATGA	ATCATGCCAG	AAAGGAAATT	540
GGAGTTGAGG AAGCTATTGA	TTACCTAAAG	TCTATCAATG	CTCCGTTTGG	GAAAAATTTT	600
GATGGTAGAG GTATGGTCAT	TTCAAATATC	GATACTGGAA	CAGATTATAG	ACATAAGGCT	660
ATGAGAATCG ATGATGATGC	CAAAGCCTCA	ATGAGATTTA	AAAAAGAAGA	CTTAAAAGGC	720
ACTGATAAAA ATTATTGGTT	GAGTGATAAA	ATCCCTCATG	CGTTCAATTA	TTATAATGGT	780
GGCAAAATCA CTGTAGAAAA	ATATGATGAT	GGAAGGGATT	ATTTTGACCC	ACATGGGATG	840
CATATTGCAG GGATTCTTGC	TGGAAATGAT	ACTGAACAAG	ACATCAAAAA	CTTTAACGGC	900
ATAGATGGAA TTGCACCTAA	TGCACAAATT	TTCTCTTACA	AAATGTATTC	TGACGCAGGA	960
TCTGGGTTTG CGGGTGATGA	AACAATGTTT	CATGCTATTG	AAGATTCTAT	CAAACACAAC	1020
GTTGATGTTG TTTCGGTATC	ATCTGGTTTT	ACAGGAACAG	GTCTTGTAGG	TGAGAAATAT	1080
TGGCAAGCTA TTCGGGCATT	AAGAAAAGCA	GGCATTCCAA	TGGTTGTCGC	TACGGGTAAC	1140
TATGCGACTT CTGCTTCAAG	TTCTTCATGG	GATTTAGTAG	CAAATAATCA	TCTGAAAATG	1200
ACCGACACTG GAAATGTAAC	ACGAACTGCA	GCACATGAAG	ATGCGATAGC	GGTCGCTTCT	1260
GCTAAAAATC AAACAGTTGA (	GTTTGATAAA	GTTAACATAG	GTGGAGAAAG	TTTTAAATAC	1320
AGAAATATAG GGGCCTTTTT (	CGATAAGAGT	AAAATCACAA	CAAATGAAGA	TGGAACAAAA	1380
GCTCCTAGTA AATTAAAATT	TGTATATATA	GGCAAGGGGC	AAGACCAAGA	TTTGATAGGT	1440
TTGGATCTTA GGGGCAAAAT	TGCAGTAATG	GATAGAATTT	ATACAAAGGA	ТТТААААААТ	1500
GCTTTTAAAA AAGCTATGGA	TAAGGGTGCA	CGCGCCATTA	TGGTTGTAAA	TACTGTAAAT	1560

TACTACAATA	GAGATAATTG	GACAGAGCTT	CCAGCTATGG	GATATGAAGC	GGATGAAGGT	1620
ACTAAAAGTC	AAGTGTTTTC	AATTTCAGGA	GATGATGGTG	TAAAGCTATG	GAACATGATT	1680
AATCCTGATA	AAAAAACTGA	AGTCAAAAGA	AATAATAAAG	AAGATTTTAA	AGATAAATTG	1740
GAGCAATACT	ATCCAATTGA	TATGGAAAGT	TTTAATTCCA	ACAAACCGAA	TGTAGGTGAC	1800
GAAAAAGAGA	TTGACTTTAA	GTTTGCACCT	GACACAGACA	AAGAACTCTA	TAAAGAAGAT	1860
ATCATCGTTC	CAGCAGGATC	TACATCTTGG	GGGCCAAGAA	TAGATTTACT	TTTAAAACCC	1920
GATGTTTCAG	CACCTGGTAA	АААТАТТААА	TCCACGCTTA	ATGTTATTAA	TGGCAAATCA	1980
ACTTATGGCT	ATATGTCAGG	AACTAGTATG	GCGACTCCAA	TCGTGGCAGC	TTCTACTGTT	2040
TTGATTAGAC	CGAAATTAAA	GGAAATGCTT	GAAAGACCTG	TATTGAAAAA	TCTTAAGGGA	2100
GATGACAAAA	TAGATCTTAC	AAGTCTTACA	AAAATTGCCC	TACAAAATAC	TGCGCGACCT	2160
ATGATGGATG	CAACTTCTTG	GAAAGAAAAA	AGTCAATACT	TTGCATCACC	TAGACAACAG	2220
GGAGCAGGCC	TAATTAATGT	GGCCAATGCT	TTGAGAAATG	AAGTTGTAGC	AACTTTCAAA	2280
AACACTGATT	CTAAAGGTTT	GGTAAACTCA	TATGGTTCCA	ТТТСТСТТАА	AGAAATAAAA	2340
GGTGATAAAA	AATACTTTAC	AATCAAGCTT	CACAATACAT	CAAACAGACC	TTTGACTTTT	2400
AAAGTTTCAG	CATCAGCGAT	AACTACAGAT	TCTCTAACTG	ACAGATTAAA	ACTTGATGAA	2460
ACATATAAAG	ATGAAAAATC	TCCAGATGGT	AAGCAAATTG	TTCCAGAAAT	TCACCCAGAA	2520
AAAGTCAAAG	GAGCAAATAT	CACATTTGAG	CATGATACTT	TCACTATAGG	CGCAAATTCT	2580
AGCTTTGATT	TGAATGCGGT	TATAAATGTT	GGAGAGGCCA	AAAACAAAAA	TAAATTTGTA	2640
GAATCATTTA	TTCATTTTGA	GTCAGTGGAA	GCGATGGAAG	CTCTAAACTC	CAGCGGGAAG	2700
AAAATAAACT	TCCAACCTTC	TTTGTCGATG	CCTCTAATGG	GATTTGCTGG	GAATTGGAAC	2760
CACGAACCAA	TCCTTGATAA	ATGGGCTTGG	GAAGAAGGGT	CAAGATCAAA	AACACTGGGA	2820
GGTTATGATG	ATGATGGTAA	ACCGAAAATT	CCAGGAACCT	TAAATAAGGG	AATTGGTGGA	2880
GAACATGGTA	TAGATAAATT	TAATCCAGCA	GGAGTTATAC	AAAATAGAAA	AGATAAAAAT	2940
ACAACATCCC	TGGATCAAAA	TCCAGAATTA	TTTGCTTTCA	ATAACGAAGG	GATCAACGCT	3000
CCATCATCAA	GTGGTTCTAA	GATTGCTAAC	ATTTATCCTT	TAGATTCAAA	TGGAAATCCT	3060
CAAGATGCTC	AACTTGAAAG	AGGATTAACA	CCTTCTCCAC	TTGTATTAAG	AAGTGCAGAA	3120
GAAGGATTGA	тт					3132

# (2) INFORMATION FOR SEQ ID NO: 111:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14672 base pairs

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- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

60	GATATTCTCT	TCCAGATCTG	CTACCCATCA	TACGTGAAAT	TTAAATGAAC	CGAGATTTCT
120	TTAAAGCTTC	TCTCATGCTT	TAATATAAGT	TAGGAGATTT	AGTAAAGTTT	ССТАТСТАТА
180	GTTCTCATTT	TTCTGGGAGA	ACTCATTTGC	TCAGTTTCCC	TTAAAACCGC	GGTAAGAGAT
240	CAAAAGGCAG	TTAGATCCTG	GTTTTATATT	GTAAAAACAA	GAAAAAATTA	TATTATTCTT
300	TAACATTTAA	AATATCATTT	GCATTATTCA	AATTTGAAAG	TCAATAAGTG	GCAGAGAATG
360	TAAAGTATTT	TCGCCTGTTT	TAATAAGAAG	CTCGTAAAGA	AGCTTTATGT	AAAGTTAGAT
420	TGTATGTAAT	ACAGCATTAT	ATTTTTTGTA	TAGGGATTTT	AGGAATAAGC	TTTTAAGTAT
480	AGGACGATTC	ACGAATTTCA	CATAATTGAC	CTAATAGATA	GTACCTATAG	ACAATCATTA
540	TCTCACTAAT	ACTGTTTCAT	ATTTATATTT	TTACTATATT	AGAATGTTAT	GTATTCGTCT
600	AAGAGATTAG	ATAATGGATA	СТТААААТАТ	ATGTTGCATC	AGACAGATAT	GTATTTATTA
660	AACGTACTTT	TTTTATGAAA	ACCTTACAGT	TGATATATTT	ATGAAACATT	CTATGATTTT
720	TATCAAATAA	AGAGAAATAC	TGTTTATATA	CTAACTCTAT	CTTTTTAGAG	AGGGGATATA
780	TTTTATTTAG	TATGCTGTGG	GATTGTGGTT	ATTTGTTAAT	GCTATACTTG	TTTTATAGCA
840	CTATTGTAAT	CTAGCTCTAT	ATCACTAAGT	TCTTTTTAAT	TACATGGTAA	CTTTTCTAAG
900	AAAAGGTTAA	AATATAAAAG	AATTGATAAA	СААААААТТТ	ATAAAAATCT	GTATCCAATC
960	TAACTGGAGA	GATATTAAGC	TAAAAATAGT	AAGTAATTTC	ATTACTTCCG	TGTTCAAAAT
1020	TCATAGGTCG	AAACAGCTCA	TTTTAATACA	AATGGGATAA	TGGATTAACA	AGAGGAATTT
1080	AAATTATTCT	AATGTTTTAC	TAGTATAACG	CAATTGTTAG	ATACATTTAT	AAAACTTGAT
1140	TGACGTTAGG	TTCGAACAAT	TATAAAAACA	TAGGTGTAAA	ACCCTTATTG	CCCTGTTTTG
1200	TTTCTTTAAG	TCTCCTATAA	ATACTTTATT	CAGTCTCACC	GCAATAAGTA	ACAAATTGTA
1260	AGGATGTGTT	TTAAGAATAG	GGGATATTTT	TGTTATTAAA	ATACAATTAA	TGATAACTAT
1320	TTGATAAAAA	GATATAAAAT	AGTCAGTCAA	TTCCAGAAAG	TCCGAATTAA	ТААТАСТААА
1380	TTTTGAAAGG	GATGATTATG	TGGATTATTT	GGTATAAATA	AAAGATATTT	AATAGAATTA
1440	CAGGTTCAGG	GTTGGAGAAT	TGTTGCTATT	AAGGAGAAAC	ACTATTAAAA	AATAAATGTT
1500	GTTCAATAGA	CCTAATATTG	TTTATTAGAA	TTTTATTAGG	TTAGCTAAAA	TAAGAGTACA
1560	TTTTTGGAGC	TATAGAAAGA	TCAAACATTG	AAGAAATTGG	GTAGAAAAAG	AGTTGATGGA

AGTGTTACAA	AATTCAACCC	TAAGTTATGG	TACCTTAAGA	GAGAATTTGA	CATTTGGACA	1620
CTTTGTTTCA	GATGAAGAAT	TAATGACAAA	TCTAAATTCA	ATTGGTCTTA	GCAATGTAGT	1680
ТАААТСТТТА	CCTCTTGGAT	TAGAGACAAT	CATCGCTGAA	GAAGGTAATA	ACTTTTCTGG	1740
AGGGCAGCAG	CAAATGATAC	TTTTAGCTCG	TTGTCTTTTG	TCGAAACCTT	CGGTAGTTGT	1800
TTTGGACGAA	GCAACAAGTA	GTTTAGATAA	TTTATCTCAA	CAAATTACAA	CTTCTTACTT	1860
AAGTGAAATC	GGTACCACTA	AGATTTTAAT	TGCCCATCGA	CTAGATACTA	TCAAGTCTGC	1920
AGATAAGATC	TTAGTAATGC	ATAATGGTGA	AATTGTAGAG	ATTGGGACCC	ATAGAGAACT	1980
TCTTGAACTA	GGAGGCATTT	ATAAGCAATT	GTATTCAAAT	AATTAGTTTT	TGATTAAAAG	2040
GGTAAATTTA	TGAAGATTAT	GAAAAAAAA	TATTGGACTT	TAGCGATATT	ATTCTTTTGT	2100
TTGTTCAATA	ATTCTGTTAC	TGCTCAAGAA	АТАССТАААА	ATCTTGATGG	СААТАТААСТ	2160
CACACTCAGA	CTAGCGAAAG	TTTTTCTGAA	TCTGATGAAA	AACAGGTTGA	СТАТТСТААТ	2220
AAAAATCAAG	AAGAAGTAGA	ССААААТААА	TTTCGTATTC	AAATCGATAA	GACAGAATTA	2280
TTTGTAACAA	CAGATAAACA	TTTAGAAAAA	AACTGTTGTA	AATTGGAACT	TGAACCACAA	2340
ATAAATAACG	ATATTGTTAA	CTCTGAAAGT	AATAATTTAC	TAGGCGAAGA	TAATTTAGAT	2400
AATAAAATTA	AGGAAAATGT	TTCTCATCTA	GATAATAGAG	GAGGAAATAT	AGAGCATGAC	2460
AAAGATAACT	TAGAATCGTC	GATTGTAAGA	AAATATGAAT	GGGATATAGA	TAAAGTTACT	2520
GGTGGAGGCG	AAAGTTATAA	ATTATATTCT	AAAAGTAATT	CTAAAGTTTC	AATTGCTATT	2580
TTAGATTCAG	GAGTCGATTT	ACAAAATACT	GGATTACTGA	AAAATCTTTC	AAATCACTCA	2640
AAAAACTATG	TCCCCAATAA	AGGATATTTA	GGAAAAGAGG	AGGGAGAGGA	AGGAATAATA	2700
TCAGATATTC	AAGATAGATT	AGGTCATGGT	ACGGCTGTTG	TAGCTCAAAT	TGTAGGGGAT	2760
GACAATATTA	ATGGAGTAAA	TCCTCACGTT	AATATTAACG	TCTATAGAAT	ATTTGGTAAG	2820
TCGTCAGCTA	GTCCAGATTG	GATTGTAAAA	GCAATTTTTG	ATGCTGTAGA	TGATGGCAAT	2880
GATATTATCA	ATCTTAGTAC	TGGACAATAT	TTAATGATTG	ATGGAGAATA	TGAGGACGGA	2940
ACAAATGATT	TTGAAACATT	TTTGAAGTAT	AAAAAGGCTA	TTGATTACGC	GAATCAAAAA	3000
GGAGTAATTA	TAGTAGCTGC	ATTAGGGAAT	GACTCCCTAA	ATGTATCAAA	TCAGTCAGAT	3060
TTATTGAAAC	TTATTAGTTC	ACGCAAAAAA	GTAAGAAAAC	CAGGATTAGT	AGTTGATGTT	3120
CCAAGTTATT	TCTCATCTAC	AATTTCGGTC	GGAGGCATAG	ATCGCTTAGG	TAATTTATCA	3180
GATTTTAGCA	ATAAAGGGGA	TTCTGATGCA	ATATATGCGC	CTGCAGGCTC	AACATTATCT	3240
CTTTCAGAAT	TAGGACTTAA	TAACTTTATT	AATGCAGAAA	AATATAAAGA	AGATTGGATT	3300

TTTTCGGCAA	CACTAGGAGG	ATATACGTAT	808 CTTTATGGAA	ACTCATTTGC	TGCTCCTAAA	3360
GTTTCTGGTG	CGATTGCAAT	GATTATTGAT	АААТАСАААТ	TAAAAGATCA	GCCCTATAAT	3420
TATATGTTTG	ТААААААТТ	CTGGAAGAAA	CATTACCAGT	AAAAAATGGT	ATAAAAGTGT	3480
ТАААТАТАСС	AAACGTATTG	AGATATGATT	TGAATATGTT	ACAATTAGAA	TATAAAAATG	3540
AACAAAGTTG	GGATAGTTTC	ATAGATAATG	TTAATTTAAT	TGAGTTGGAA	GAGAGAATTC	3600
AAACTACTAT	TGGAATTAAA	САААТАААСА	CACACAATAT	TATTACTATT	GCCCGAGAAG	3660
GGTACTCTCA	AAATTATTTA	CCTAACACTT	CAGAAAATAC	АТАТААТТСА	TTACAAGTCA	3720
GTTTAGTTGG	AGTATTACTA	СТТТТТАТАА	GTATGGTAAA	TATTTTATGG	GCTAAAAAA	3780
GTAAATGAAA	ATAAAATTTG	GAGCCCTCTG	AAAAAGTAAG	TCCTACAGTT	СААСТААААТ	3840
GAGTCAAAAG	ATGAATCACC	TTGATGTAGG	GGAGTTTGTC	TTATTGCTGC	CTGAACACCT	3900
CCGTTCAGAG	GAAGAACATT	ATAAATCTGT	TTTTGAAGAC	GACTTAACCA	GTCGCATATC	3960
TAGTCAAGAT	GAACGACAGC	AAATGACTGC	TACGGTAGGT	TATTTAGAAT	CAGGTCAGGA	4020
TCGTTTTGTG	TATAATACGA	CCCCTATTTC	TTACCAGCAG	TTTTTGAAAG	ATCCAATCAT	4080
CATTGTTATA	ACACCCCAAT	CAACTGGTCC	ACAGTCCATT	TTGTTTTGGA	TAGACGCAGT	4140
ACAGAACTAC	GTTCTCTTTA	ATCAATTGTC	TGATGCCCAG	GAGCTTATCC	AGAGACAAGG	4200
CATTGAAAAT	TGGGTCTCAG	AAATGCAAAC	AGGTTACCAC	AACTACATCA	CATTATTGGA	4260
TAATATCCAG	AGGGAACGTT	GGGTAATGCT	AGCAGGAGCT	GTGCTTGGGA	TTGCAACTTC	4320
AATCTTGTTG	TTTAACACTA	TGAATAGGCT	CTACTTTGAA	GAATTTAGAC	GTGCCATTTT	4380
TATCAAACGC	ATTGCAGGTC	TCAGGTTCTT	AGAAATCCAT	CGCACTTATC	TCTTTGCTCA	4440
ACTGGGTGTG	TTTTTACTGG	GATTTGTTGC	GAGTGTATTT	CTTCAGGTAG	AGATAGGAGT	4500
TGCTTTCTTA	GTCTTGTTAC	TCTTTACTGG	TCTATCTCTT	TTACAGTTAC	ATGTCCAAAT	4560
GCAGAAAGAA	AACAAGATGT	CCATGCTTGT	TTTGAAGGGA	GGTTAATATG	ATTGAACTTA	4620
AACAGGTGAG	ТАААТСТТТТ	GGAGAACGAG	AGTTATTTTC	GAATCTTTCA	ATGACATTTG	4680
AGGCTGGAAA	AGTCTATGCC	TTAATTGGTT	CAAGTGGTAG	CGGAAAAACA	ACCTTGATGA	4740
ACATGATTGG	GAAATTAGAA	CCTTATGATG	GGACGATTTT	TTACCGAGGT	AAAGACTTGG	4800
CCAATTATAA	ATCAAGTGAT	TTTTTCCGTC	ACGAATTGGG	CTACCTCTTC	CAGAACTTTG	4860
GCTTAATTGA	AAACCAAAGT	ATTGAAGAAA	ACCTTAAGCT	AGGTCTCATT	GGTCAAAAGT	4920
TGAGTCGGTC	GGAACAGCGG	TTGAGGCAGA	AGCAGGCTTT	AGAACAGGTC	GGCCTGGTTT	4980
ATCTTGACCT	AGATAAGCGC	ATCTTTGAGT	TATCGGGCGG	AGAATCGCAA	CGGGTTGCCT	5040
TGGCAAAAAT	TATCTTAAAG	AATCCACCCT	TTATTCTGGC	AGATGAGCCA	ACAGCTTCAA	5100

TAGACCCAGC	AACCTCTCAG	TTGATTATGG	AGATTTTGCT	ATCTCTTCGA	GATGATAATA	5160
GGCTAATCAT	TATCGCAACA	CATAATCCGG	CAATTTGGGA	GATGGCTGAT	GAAGTGTTCA	5220
CGATGGATCA	TCTGAAATAA	AAATCCTTGT	TTTTAATTGC	ACGATGAGTT	ACTGAAATAT	5280
TATCATGAAT	CAAGAATTGG	AGTTAATTTA	GAATTGTACT	TAATTTAGAA	TTGTACTTTA	5340
TTAATATTGA	GGTAACTTTT	TCTTGATAAA	GGAAGAAATA	ATGGAGAGGA	AGTTAGAATG	5400
AAAAAATTCG	ACAATTATAT	TATTGAGAAG	CCTTGCGATT	CTAATTCAGA	TAAACTGCAA	5460
AAAATCTTAA	TAATTGAAAG	TTTGGTAGAT	GATATTTTGC	AATTTTCTCT	CAGAATCAAT	5520
AATAGTGTAG	GAGAGATTTT	CCTCCTACAA	CCGTTTTAAA	AGAAAACTAT	CTTTATTCCA	5580
TGTTATTTTG	AGGAAGATAT	TGTGAAAGTC	AAAGATGATG	ATAAAGTTGA	GTGGAATTTG	5640
TTAGAATTTC	AAAAATTTAG	AGCATTTTTG	GCTTAGTAAT	CTGTGTTGAA	GGCTCAAAAC	5700
CTATGGTAAA	AAAGTAGCTT	TGAAAACGTA	TTGCCTCCAA	AGATTTAGTT	AAATAATGAT	5760
TTAACACAAA	AAGAAATTAT	TGAAGTTCTG	GAAAGATGTT	GTTTCAGTAT	TGAGAAAAGG	5820
TGGGAAAAAC	TTGCGATTTT	CACAGAGAAA	GGAAGAAAA	GTATAGAAAT	ATAGTCAATT	5880
GAAACAAGAA	CAGGATAAAA	GAACCTTTTG	TGCCATATTT	TTCTCCTTTC	GCTTTACAAT	5940
TGGATTGAAC	ACCTTTATTG	TATCGCGTTT	GGAGTTTTTT	TGGTATAACC	TTCGACGCAC	6000
ACCCGCATAG	CGGGTGTTTT	TTTTGTCTCG	CACCTAACGG	AGCGAGACAA	ACTAATAGTC	6060
ACTTAATCAA	AAAACGCACC	ATATCAAAAA	CTAAAAAGTT	TGATATCATG	CGTCATGTCT	6120
TAAACTAATT	GACTATACTT	TCTATTCAAA	TGAGCTTTTA	ACCAATTGAT	TGAGCCAATC	6180
CACTCTTAAA	ACCAAAGAGC	AATTTCTCGC	TTAGCTGACT	CTTCTGAATC	TGAACCATGT	6240
ACAACATTTT	GGATAATCTC	ATTTTCTCCA	GCAGCTTTTG	CAAAATCACC	TCGAATAGTG	6300
CCTGGTAAAG	CTTCTTCTGG	ACGAGTTGCA	CCCATCATGG	TCCGCCAAGT	TTCGATTACT	6360
TTGGGACCAG	AAATGACACC	CACAAGAACT	GGACCTGAAG	TCATGAATTC	ACGAATCGGT	6420
GGGTAAAAAC	TCTGACCAAC	CAAGTCCTGA	TAGTGCTGGT	CAATCAACTC	TTCTGAAACC	6480
TGTGAACGAA	ACTCCAATTT	TTCGATTGTA	AATCCACGTT	GTTCGATGCG	CTTTAACACT	6540
TCACCCACTA	GCCCTCTTTT	TACACCATCT	GGTTTGATGA	TAAAGAATGT	TTGTTCCATA	6600
CCCGTCTCCT	TTGTCAGCTT	CTTTCTTTTA	TTTTACCACA	TTTCGTGGAA	AAATGGAGAA	6660
AGTTTTCAGA	AGAGAGAATG	AGAGAACCCT	CGGGTTCTCT	CATTCTCTCT	TATTCTACTG	6720
TTTCTTCCAC	AGTTTCAACG	GCAGTATCCA	CAACTACTTC	TGTTGTTTCT	TCATTTCCTT	6780
CTTCCTCTAC	TGGAGGATTA	AGGTATTCTT	CTTCGTTGAC	AGCATGTGGT	TCAAGGTTAC	6840

GGTAACGGGC	CATACCAGTA	CCAGCTGGGA	810 TGATCTTACC	GATGATAACA	TTTTCTTTAA	6900
GTCCAAGGAG	ATGGTCTTTC	TTACCACGGA	TAGCTGCGTC	AGTAAGGACA	CGAGTTGTTT	6960
CCTGGAAGGA	AGCCGCTGAC	AAGAAACTGT	TTGTTTCAAG	TGAGGCTTTG	GTAATTCCCA	7020
TAAGGACTGG	GCGACCTGTC	GCTGGAACTC	CACCTGCGAT	AAGGACATCT	TTGTTGGCAT	7080
CTGTAAAGTC	ATTGATATCC	ATGAGGGTAC	CCATGAGAAG	ATCTGTATCA	CCTGGATCCA	7140
TGACACGGAC	TTTACGGATC	ATTTGACGAA	CCATTACCTC	GATGTGTTTG	TCACCGATTT	7200
CTACCCCTTG	GCTACGGTAA	ACTTTTTGTA	CTTCACCGAG	AAGGTACGTT	TCAACTGACA	7260
AGACATCACG	AACTGCAAGG	AGACGTTTTG	GTTGGATAGA	ACCTTCTGTC	AGAGCAGCAC	7320
CACGCGCTAC	TTGGCCCCCA	ACTTCGACAC	GCATACGÁGC	TGTAAATGGA	ACGACATATT	7380
CACCTTCGCC	AGTTTCACCC	TTAACAAAGA	CTTTCTTGGT	ACGAGTTGAT	GCATCTTCTT	7440
CGATAGCAGT	AACTTGTCCT	TTAACCTCTG	TAATAACCGC	TTCCCCTTTA	GGATTGCGGG	7500
CTTCAAAGAT	TTCTTGGACA	CGAGGAAGAC	CCTGAGTGAT	ATCGGTATTT	GAGGCAACCC	7560
CACCTGTGTG	GAAGGTACGC	ATTGTAAGCT	GTGTACCAGG	TTCCCCGATA	GATTGGGCAG	7620
CGATTGTACC	AACTGCTTCA	CCAACTTCAA	CCGCATCACC	AGTCGCCAAG	TTGATACCGT	7680
AACAGTGACG	GCAGACACCG	TGACGAGTGT	TACATGTAAA	TACAGAACGG	ATAGTCACTT	7740
CTTCCACACC	AGCATTGACA	ATTTCACGCG	CCTTGTCTTC	TGTAATCAAT	TCATTTGGAC	7800
CAATAATCAC	TGCACCAGTT	TCTGGATGTT	TAACAGTTTT	CTTAGTGTAA	CGACCGTTGA	7860
GACGCTCTTC	GAGAGACTCG	ATCATCTCTT	TTCCTTCTGC	GATAGAACGG	ATCAAGAGAC	7920
CACGGTCAGT	TCCACAGTCG	TCCTCACGGA	TGATAACGTC	TTGGGCAACG	TCGACCAAAC	7980
GACGAGTCAA	GTAACCTGAG	TCGGCTGTCT	TAAGGCCCT	ATCGGTCATA	CCTTTACGAG	8040
CACCGTGAGT	TGAGAAGAAC	ATTTCCAATA	CCGACAAACC	TTCGCGGAAG	TTTGAAAGGA	8100
TTGGCAATTC	CATGATACGT	CCATTCGGAG	CAGCCATCAG	ACCACGCATA	CCGGCAAGCT	8160
GTGAGAAGTT	TGAGATGTTA	CCACGGGCTC	CAGAGTCCAT	CATCATAACG	ATTGGGTTCT	8220
TAGGATCTTG	GTTAGCAATC	AAGCGTTTCT	CAAGTTTTTC	ACGGGCAGCA	CGCCATTCAG	8280
CTGTAACAGC	ATTGTAACGC	TCGTCGTCTG	TGATCATACC	ACGACGGAAT	TGTTTGGTGA	8340
TTTGTTCGAC	ACGTTTGTGT	GATTCTTCAA	TGATTTCAGC	CTTGTCATCA	ACGACTGGGA	8400
TATCGGCAAT	ACCCACTGTC	AATCCTGCAA	GAGTTGAGTG	GTGGTAACCG	AGGTTCTTCA	8460
TGCGGTCAAG	TAGGGCAGAA	GTTTCTGTCG	TACGGAAACG	TTTGAAGATT	TCAGCGATGA	8520
TATTTCCAAG	GTTTTTCTTC	TTGAATGGAG	GGTTGAGCTC	AAGATTGCTG	ATAGCTTCCT	8580
TGATATCTCC	ACCAAGTGGC	AAGAAGTATT	TAGCTGGAAC	ACCTTCTGTC	AAGTTGGCAT	8640

TGTTTGGTTC	TTGCAAGTAT	GGTAGCCCCT	CTGGCATGAT	ATCGTTGAAG	AGAATTTTAC	8700
CAACTGTTGT	AAGCAAGACC	TTATGTCTTT	GCTCTTCTGT	CCAAGGCTTG	TTGAGGCTGT	8760
CTGTTGCGAT	ACCAACACGT	GAGTGGAGGT	GAACATAACC	ATTGCGGTAA	GCCATAACCG	8820
CTTCGTCACG	GTCTTTGAAG	ACCATTCCTT	CACCTTCGCG	ACCAGCTTCT	TCCATGGTCA	8880
AGTAGTAGTT	ACCCAAAACC	ATGTCCTGAG	ATGGAGTAAC	TACCGGTTTC	CCATCTTTCG	8940
GGTTCAAGAT	GTGCTCAGCA	GCTAGCATGA	GGATACGAGC	TTCTGCTTGT	GCTTCTTCTG	9000
AAAGTGGTAC	GTGGATGGCC	ATTTGGTCCC	CGTCAAAGTC	AGCATTGTAG	GCTTCACAGA	9060
CAAGTGGGTG	CAAGCGAAGA	GCCTTACCAT	CAATCAAGAC	TGGCTCGAAG	GCTTGGATAC	9120
CCAAACGGTG	AAGGGTCGGT	GCGCGGTTCA	AAAGCACTGG	GTGTTCTTTA	ATCACTTCTT	9180
CAAGGATATC	CCAGATACGC	TCATCTCCGC	GTTCCACCAA	GCGTTTAGCT	GCTTTGACGT	9240
TTTGCACGAT	ATCACGGGCA	ACGATTTCAC	GCATGACAAA	TGGTTTAAAG	AGTTCAATCG	9300
CCATTTCACG	CGGCACACCA	CATTGGTACA	TCTTAAGAGT	TGGACCAACG	GCGATAACTG	9360
AACGTCCTGA	GAAGTCAACA	CGTTTACCGA	GCAAGTTTTG	ACGGAAGCGT	CCTTGTTTAC	9420
CTTTAAGCAT	GTGGCTCAAT	GATTTCAATG	GACGGCTACC	TGGTCCTGTG	ATTGGACGAC	9480
CACGACGACC	ATTGTCAATC	AAAGCGTCAA	CTGCTTCTTG	AAGCATACGC	TTCTCATTTT	9540
GAACGATGAT	ACCTGGTGCA	TTTAACTCAA	GCAAACGAGC	CAAACGGTTG	TTACGGTTGA	9600
TAACACGGCG	GTAAAGGTCA	TTCAAGTCAG	ATGAGGCAAA	ACGGCCACCA	TCCAACTGCA	9660
ACATTGGACG	AAGATCTGGT	GGGATAACCG	GAAGGATGTT	AAGAATCATC	CATTCAGGTT	9720
TGTTTCCAGA	CTTGTAAAAG	GCATCCAAAA	CATCCAAACG	ACGGATGGCT	TTGACACGCT	9780
TTTGTCCAGT	AGCTGTTTTC	AATTCTTCTT	TGAGTTCAGC	AATTTCTTTT	TCAAGATCTA	9840
CTTGCTTCAA	AAGGTCTTGG	ATGGCTTCCG	CACCCATCTT	GGCAACAAAT	GAACCATAAC	9900
CATATTCACG	CAAGCGCTCT	CGGTATTCGC	GCTCTGTCAT	GATAGACTTG	TGCTCAAGTG	9960
GTGTATCCTT	AGGATCAATC	ACCACATAAG	CCGCAAAGTA	GATAACTTCC	TCGAGGGCAC	10020
GAGGGCTCAT	ATCAAGGGTC	AAGCCCATAC	GGCTTGGAAT	CCCCTTGAAG	TACCAGATGT	10080
GAGATACAGG	AGCTTTCAAT	TCGATATGTC	CCATACGCTC	ACGACGAACT	TTCGTACGCG	10140
TTACTTCAAC	CCCACAGCGG	TCACAAACAA	TTCCTCTGTA	ACGAATGCGT	TTGTACTTAC	10200
CACAAGCACA	TTCCCAGTCT	TTTGTAGGAC	CAAAGATCAC	TTCATCAAAG	AGTCCTTCAC	10260
GTTCTGGTTT	CAAGGTACGA	TAATTGATTG	TTTCAGGTTT	TTTGACTTCT	CCATAAGACC	10320
ATGAACGGAC	TTTACTTGGA	GAAGCTAGGG	TGATTTGCAT	ACTTTTAAAA	CGATTTACAT	10380

			010			
CAACCACTAT	TTCTTCCCTT	TCTATTCTAA	812 GTGAACTGCT	TATTCTTGTT	CAGCAGCTTC	10440
TTCTGTTGCT	TCCGCTTTTG	TTGCTTTCTC	AGCTTCTTCA	GCTTCAAAGG	CTGCTTTAGC	10500
CTCTTGGGCT	GCTTTTTCGC	GGGCTTTTTC	AAGGTCATCT	ACGTGGATGA	CATCTTCGTC	10560
CATTCCTTCA	TCCAAGTCGC	GAAGTTCCAC	TTCTTGGTCA	TCTTCGTCTA	GGACACGCAT	10620
GTCAAGACCA	AGAGATTGCA	ATTCTTTGAC	AAGAACTCGG	AAGGATTCTG	GAACACCTGG	10680
TTTTGGAATT	GGTTTGCCTT	TTGTAATAGC	TTCATAGGCT	TTCAAACGTC	CGTTGATATC	10740
GTCCGACTTG	TAAGTCAAGA	TTTCTTGAAG	GACATTTGAC	GCACCGTAGG	CTTCAAGAGC	10800
CCAAACCTCC	ATCTCACCGA	AACGTTGTCC	ACCAAACTGA	GCCTTACCTC	CGAGTGGTTG	10860
TTGGGTAACA	GTTGAGTATG	GTCCGACTGA	ACGCGCGTGC	AATTTATCAT	CAACCATGTG	10920
GTGGAGTTTG	ATCATGTACA	TGACTCCGAC	AGAAACACGG	TTATCAAACG	GTTCACCAGT	10980
ACGTCCATCG	TAAAGGATCG	TTTTGGCATC	GCTATCCATA	CCTGCTTCTT	TAACAGTTGA	11040
CCAAAGATCT	TCAGAACTTG	CTCCATCAAA	GACTGGTGTA	GCGATGTGAA	TACCAAGAGT	11100
ACGAGCTGCC	ATACCAAGGT	GAAGCTCCAT	AACCTGACCG	ATATTCATAC	GTGATGGTAC	11160
CCCAAGTGGG	TTCAACATGA	TGTCGACTGG	AGTTCCGTCT	GGAAGGTAAG	GCATGTCTTC	11220
TACAGGAACG	ATACGAGAGA	CAACCCCTTT	GTTTCCGTGA	CGTCCGGCCA	TTTTATCTCC	11280
GACCTTAATC	TTACGTTTTT	GAGCGATGTA	AACACGAACC	AACATGTTAA	CACCTGATTG	11340
CAACTCATCT	CCATTTACAC	GTGTAAAGAT	CTTAACATCA	CGAACGACAC	CATCGGCACC	11400
GTGTGGTACA	CGAAGAGAAG	TATCACGCAC	TTCACGAGAC	TTGTCTCCAA	AGATAGCGTG	11460
CAAGAGACGT	TCTTCAGCTG	AAAGATCTTT	CTCACCCTTA	GGTGTTACTT	TACCTACAAG	11520
AATATCACCT	TCTTTAACCT	CAGCACCAAT	ACGGATAATC	CCCATTTCGT	CAAGGTCTTT	11580
GAGGGCATCT	TCACCAACGT	TTGGAATTTC	GCGAGTGATT	TCTTCAGGCC	CAAGCTTTGT	11640
ATCGCGCGTT	TCTGATTCGT	ATTCTTCAAG	GTGAACAGAT	GTGTAGACAT	CGTCCTTCAC	11700
CAAGCGTTCG	CTCATGATAA	CGGCATCCTC	GAAGTTGTAA	CCTTCCCAAG	TCATGTAGGC	11760
AACGATTGGG	TTTTGTCCAA	GCGCCATTTC	TCCATTTTCC	ATAGAAGGTC	CGTCAGCGAT	11820
GAAATCGCCT	TTTTCAACGA	CATCACCAAC	TTTTACGAGA	GTGCGTTGGT	TGTAAGCAGT	11880
ACCTGAGTTT	GAACGACGGA	ATTTTTGGAT	GTGGTAAACA	TCCAATGAAC	CATCTTCACG	11940
ACGAACTTCT	ACCTTGTCAG	CATCTGCGTA	AGTAACTTTA	CCATCATACT	GAGCAATCAC	12000
AGCCGCACCA	GAATCGTGGG	CTGCTTGGTA	TTCCATACCA	GTACCAACGT	AAGGTGCCTG	12060
AGGATTAATC	AATGGCACAG	CCTGACGTTG	CATATTGGCT	CCCATGAGGG	CACGGTTGGA	12120
GTCATCGTTT	TCCAAGAAAG	GAATACATGC	TGTCGCAACG	GCAACTACCT	GTTTTGGTGA	12180

11.00m001m0						
	TAGTCAACAA					12240
CATGACAATC	TTCTCAGCAA	AGGTTCCATC	TTCATTCAGA	CGAGAGTTAG	CCTGAGCTAC	12300
AGTATATTCA	TCTTCTTCAT	CAGCTGTCAA	CCAAACAATT	TCGTTCGTGA	CAACACCTGT	12360
TTCACGGTCA	ACCTTACGGT	ATGGTGTTTG	AACAAAACCA	TATTTGTTCA	AGTGTCCATA	12420
AGATGACAAG	TTATTGATCA	AACCGATGTT	AGGTCCTTCA	GGTGTCTCGA	TTGGACACAT	12480
ACGACCATAG	TGAGTGTAGT	GCACGTCACG	TACTTCATAT	CCAGCACGGT	CACGAGTCAA	12540
ACCACCAGGT	CCTAAGGCTG	ACAAACGGCG	TTTGTGAGAC	AACTCAGAAA	GCGGGTTGTG	12600
TTGGTCCATG	AACTGTGACA	ACTGTGATGA	ACCAAAGAAT	TCTTTAACTG	CAGCTGTTAC	12660
AGGACGGATA	TTGATAATTT	GTTGTGGTGT	CAAGACTTCA	TTGTCCTGAA	CAGACATACG	12720
TTCACGGACA	TTACGTTCCA	TACGAGAAAG	TCCCAAACGT	ACTTGGTTGG	CAAGCAATTC	12780
ACCAACCGCA	CGGATACGAC	GATTTCCAAG	GTGGTCGATA	TCATCTACAC	GGCCAAGTCC	12840
TTCAGCCAAG	TTGAGGAAGT	AGCTCATCTC	AGCAAGGATA	TCTGCAGGAG	TCACCGTACG	12900
AACCTTGTCA	TCTGGGTTAG	CATTACCAAT	GATCGTTACG	ACGCGATCTG	GATCAGTTGG	12960
AGCAATAACC	TTGAATTTTT	GAAGAACAAC	AGGCTCAGTC	ACAACGGCTG	CATCGTTTGG	13020
GATGTAGACA	ATCTTGTTCA	AGTCGCCATC	CAAATGGCTT	TCAATGCTTT	CAATCACGCT	13080
ACGAGTCATA	ATCGTACCAG	CTTCTACCAA	GATTTCTCCA	GTTTCAGGGT	CTACCAATGG	13140
CTCTGCAATG	GTTTGGTTGA	GCAAACGTGT	TTTAACATTG	AGTTTTTTAT	TGATTTTGTA	13200
ACGACCAACT	GCTGCCAAGT	CATAACGACG	TGGGTCAAAG	AAGCGAGCTA	CAAGCAAGCT	13260
ACGTGAGCTT	TCAGCCGTCT	TAGGCTCACC	TGGACGAAGG	CGTTCGTAAA	TTTCTTTCAA	13320
GGCTTCGTCT	GTACGAGAGT	CCATTGGATT	CTTGTGGATA	TCTTTTTCAA	CAGTGTTGCG	13380
AACCAATTCG	CTGTCACCAA	AGATATCAAA	GATTTCATCA	TCACCTGAGA	AACCAAGAGC	13440
ACGAACCAAG	GTTGTAAATG	GAATCTTACG	AGTACGGTCG	ATACGAGTGT	AGGTGATATC	13500
TTTTGAGTCG	CTTTCAAGTT	CCAACCAAGC	TCCACGGTTA	GGGATAACAG	TTGAACCATA	13560
GCCCACCTTA	CCATTTTTGT	CTACTTTGTC	GTTAAAGTAA	ACACCTGGTG	AGCGGACCAA	13620
CTGAGAAACG	ATAATACGTT	CACCACCATT	GATGATGAAA	GTACCCATTT	CTGTCATGAT	13680
TGGGAAATCA	CCAAAGAAAA	CTTCTTGGGT	CTTGATTTCG	CTTGTTTCTT	TATTGATCAA	13740
ACGGAAGGTT	ACAAAAATTG	GTGCTGAGTA	GCTAGCATCG	TGGATACGAG	CTTCTTCTAG	13800
CGTATATTTT	GGTTCCTTGA	TTTCATATCC	AACAAATTCC	AACTCCATTG	TGTCTGTGAA	13860
GTTTGAAATT	GGCAATACAT	CTTCAAACAC	TTCCTTAAGA	CCGTGGTCTA	GGAAAGCTTT	13920

			814			
GAATGAGTCA	GTTTGAATTT	CAATCAAATT	TGGTAAGTCA	AGAACTTCTT	TGATTCTTGA	13980
AAAACTACGA	CGGGTACGAT	GTTTCCCGTA	TTGAACGTCA	TGTCCTGCCA	AGATGATTCT	14040
CCTTTGTAAA	TAAGTTCCAA	GCCTTGTCAA	TCAGGCTTTT	CTAATCGTCA	TATGGTTGTA	14100
AACCCCTTAT	CACCGTGTCC	TCTTGACGAA	TTTTCAGAAT	CTTTAAGCCT	CTGTTACAAA	14160
TGCTCAAAAT	CTTGAAAAAA	AGCACAAAAA	GAGCAGCTAA	ATCTGACTTT	TTCAGAAGAT	14220
TTAACTGCTG	TGAGCCTTGT	CTGGACAATA	TTTCAGACAA	AACCTACGAC	AAATGATTAC	14280
CCATATTATA	CCCTATTTAG	CTAGATTTTT	CAAGGGGTTT	CAGTAGGTTT	TTGGTAAATT	14340
TTTTCCCATA	GAAAACTTGG	CATCACATTC	GAATCACGCT	ATGGTACAAA	AAACTGAAAA	14400
AACTATTGAC	TGAAAATCAT	TTTCAAGGTA	ТААТААТААА	CGTTAAGGCG	GTATAGCCAA	14460
GTGGTAAGGC	ACGGCTCTGC	AAAAGCTTGA	TCGTCGGTTC	AAATCCGTCT	ACCGCCTTCT	14520
ATAACTTGAT	TTATCAGGTT	TCAAATGAAC	AGAAAGCCCA	ATTTGAAGGG	CTTTTTTTAT	14580
TTTCCCTCGA	ATAAATACGT	ATAACTTTAA	AAACTTTTGG	AGCGAGTTTG	TGGCAGAGTT	14640
CTTTCCATGG	CATAATTCCC	TTTTGAAATC	AG			14672
(2) INFORMA	ATION FOR SE	EO ID NO: 11	2:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 7902 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

AGGAGACTAT	TCAAGCCCAA	ATTGAGTAGC	CCAGCAAAGA	CTGTATAGAC	TGTGATACGT	60
TTTTCATAGC	CATTGGTAAA	GAGAATTTGG	GAACCAAGAA	TGGTATCTAA	GGCCAGGATA	120
ATCGTACGAA	AAGCGAAGAG	AGAGGTCAAG	ATGCCGCCTC	CGATATATTT	TTCACTACCG	180
TAAAGTAGGA	TGGCATTTGG	TCCTAAAACC	ATGAGTCCAA	AACTCAGTGG	AATGATAAAG	240
AAGTTAAAGA	TTCGACTACC	TCTATTAACC	AGAGAAACAT	AGGCTTCTTT	GTCTCCTTTC	300
CCCAGATAGT	AACTGAGACG	AGGCACACTC	ACTCCAATTG	CACCTGTTAC	AACCCCAGCT	360
ATAACGGTCA	CAATTCGCTG	AGCTATGGTA	TAGTAACTAA	CGTTGACATC	AATCCCTGTT	420
TTAACGAGGA	AGAGGCGATC	TAAAAAAGTG	AAGAGCATAT	TGGCATTGGC	AAAGACTAAC	480
ATGGCTGTCA	GAGGGAGAAA	GAGTGGTTTA	AAATCACTTA	GGTGAATTTT	AACAAGTTTG	540
ATGTCTCTTT	TAATCCAAAA	ATAACTAATC	AGGTAGTTAA	TCAGCGTCGA	TAAACTCATC	600
ACAAGTGTAT	AGACAACAAT	ATCGTGTTCA	TTTTTAACAA	ATAAGAAAAT	AGAGACCAGC	660

ATCAGGATAC	GGATGAAGGC	AGTTTTGTAA	AAGAGAAAAC	TGTAATTTTC	CAGAGCTTCA	720
TTGACCCATT	CGATTGAAAA	AATCTGGGCA	ATGAGTTGAA	TCCCCATAAC	AAGGTAGACC	780
TTTTTGACGA	TTGGATTATC	AGTAAAGAAG	AGAGGATAGG	CTAGGATATA	GACAGCAGTG	840
GTCAAAATCG	TACAAGCGAT	GCACAAATAA	AAAAGACTAG	AAAAGGTTCT	GTTAAGATCT	900
TTTTTGTTAT	CCTTGACATT	ACTGATAGCC	CTTAAACCGT	AGTTATAGAC	ACCATAAGTT	960
GCAAAGGGCA	AGAAAAATGA	CAAAATAGTG	TCGACTGAGT	TGAAGTAACC	ATAGTCAGTT	1020
CGGTCCAAGA	CACGCGCGAC	ATAGGTTCCA	GTTAGGATGG	GAAAAATAAT	ATTCAAGACA	1080
CGAATTCCCA	TGTAAGATAG	AGCATTTAAT	TTTATACTTT	TCATTCAATT	TACCTCGTTT	1140
TTCATTATAT	CATAAAGTTA	GCTAATAAGA	AATGAAGGC	AGTAAGTCAA	GTAATCACTT	1200
TGAAGTTTCA	AATCTTAAGT	TTTAAGTTTT	CTTTAAGGAA	AGTATATTAT	TCTGAAGGAC	1260
TCTAAAATTT	CGCAGCCATT	TATTAGTAAT	TGCTACAGAA	TTCCTAGTCA	TTACTAGAAA	1320
TGGACTAGTT	TCTTTGAATA	ATAGAACTGC	ATAATTCTCC	TATTCTAGAA	GGGGAGGACC	1380
AGTATTTCTT	TTATGATAGG	ACTAGATTGT	GGTATAATAG	AGAGAATAAG	TTTTTTTAGT	1440
AAGACAAAGG	AGAAAATAGA	TGATTTATGC	AGGAATTCTT	GCCGGTGGAA	CTGGCACACG	1500
CATGGGGATC	AGTAACTTGC	CAAAACAATT	TTTAGAGCTA	GGTGATCGAC	CTATTTTGAT	1560
TCATACAATT	GAAAAATTTG	TCTTGGAGCC	AAGTATTGAA	AAAATTGTAG	TTGGTGTTCA	1620
TGGAGACTGG	GTTTCTCATG	CAGAAGATCT	TGTAGATAAA	TATCTTCCTC	TTTATAAGGA	1680
ACGTATCATC	ATTACAAAGG	GTGGTGCTGA	CCGCAATACA	AGTATTAAGA	ACATCATTGA	1740
AGCCATTGAT	GCTTATCGTC	CGCTTACTCC	AGAGGATATC	GTTGTTACCC	ACGATTCTGT	1800
TCGTCCATTT	ATTACACTTC	GCATGATTCA	GGACAATATC	CAACTTGCCC	AAAATCATGA	1860
CGCAGTGGAC	ACAGTGGTAG	AAGCGGTTGA	TACTATCGTT	GAAAGTACCA	ATGGTCAATT	1920
TATTACAGAT	ATTCCAAATC	GTGCTCACCT	TTATCAAGGA	CAAACACCTC	AAACATTCCG	1980
TTGCAAGGAC	TTCATGGACC	TTTATGGATC	TCTTTCTGAT	GAAGAGAAGG	AAATCTTGAC	2040
AGATGCATGT	AAAATCTTTG	TGATCAAAGG	AAAAGATGTG	GCTTTGGCCA	AAGGTGAATA	2100
CTCAAATCTG	AAGATTACAA	CCGTAACAGA	TTTGAAGATT	GCAAAAAGTA	TGATTGAGAA	2160
AGACTAGTAA	AATGATTAAT	CAAATTTATC	AACTAACTAA	GCCTAAGTTT	ATCAATGTCA	2220
AATATCAGGA	AGAGGCTATT	GACCAAGAGA	ATCATATCCT	TATCCGTCCC	AACTACATGG	2280
CTGTCTGTCA	TGCGGATCAG	CGTTACTATC	AGGGAAAACG	TGATCCCAAG	ATTTTGAATA	2340
AAAAGCTTCC	AATGGCAATG	ATTCACGAGT	CATGTGGAAC	CGTCATTTCT	GACCCGACCG	2400

			816			
GAACCTACGA	GGTTGGTCAA	AAAGTTGTCA	TGATTCCCAA	TCAGTCTCCT	ATGCAGAGTG	2460
ATGAAGAATT	CTATGAAAAC	TACATGACAG	GGACCCATTT	CTTGTCTAGT	GGATTTGATG	2520
GCTTTATGAG	AGAGTTTGTT	TCTCTCCCTA	AAGATCGTGT	GGTGGCTTAT	GATGCTATTG	2580
AAGATACGGT	TGCAGCCATT	ACAGAGTTTG	TCAGTGTGGG	CATGCACGCT	ATGAATCGTC	2640
TATTGACTCT	TGCTCATAGC	AAGCGGGAGC	GGATCGCCGT	TATTGGAGAT	GGAAGTTTAG	2700
CTTTTGTGGT	TGCCAATATT	ATCAACTATA	CTTTGCCAGA	AGCAGAGATT	GTGGTTATTG	2760
GTCGTCATTG	GGAAAAGTTG	GAACTCTTCT	CATTTGCCAA	AGAATGCTAT	ATTACGGATA	2820
ATATTCCTGA	AGATTTGGCC	TTTGACCATG	CTTTTGAATG	TTGTGGTGGT	GATGGTACTG	2880
GACCAGCTAT	TAATGACTTG	ATTCGCTACA	TTCGTCCTCA	GGGAACGATT	CTCATGATGG	2940
GAGTTAGCGA	ATATAAAGTC	AATCTCAATA	CTCGCGATGC	CTTAGAAAAG	GGCTTGATTT	3000
TGGTTGGGTC	ATCTCGTTCT	GGTCGCATTG	ATTTTGAAAA	TGCTATCCAA	ATGATGGAAG	3060
TCAAGAAATT	TGCCAATCGT	CTTAAAAATA	TCCTTTATCT	AGAAGAACCT	GTAAGAGAAA	3120
TTAAAGATAT	TCATCGTGTC	TTTGCAACCG	ATTTAAACAC	AGCCTTTAAA	ACAGTGTTTA	3180
AGTGGGAAGT	ATAAGTACTG	GAGGTTAATT	GTGGAGAAAA	TCATTAAAGA	AAAAATTTCT	3240
TCCTTACTTA	GTCAAGAAGA	GGAAGTCCTC	AGTGTTGAAC	AACTGGGTGG	AATGACCAAT	3300
CAAAACTATT	TGGCCAAAAC	AACAAATAAG	CAATACATTG	TTAAATTCTT	TGGTAAAGGG	3360
ACAGAAAAGC	TTATCAATCG	ACAAGATGAA	AAGTACAATC	TTGAACTACT	AAAGGATTTA	3420
GGCTTAGATG	ТААААААТТА	TCTTTTTGAT	ATTGAAGCTG	GTATCAAAGT	AAATGAGTAT	3480
ATCGAATCTG	CGATTACGCT	TGATTCAACG	TCAATCAAGA	CCAAGTTCGA	CAAAATTACT	3540
CCAATATTAC	AAACTATTCA	TACGTCTGCT	AAGGAATTAA	GAGGAGAATT	TGCTCCTTTT	3600
GAAGAAATCA	AAAAATACGA	ATCCTTGATT	GAAGAACAAA	TTCCTTATGC	CAACTATGAA	3660
TCTGTTAGAA	ATGCAGTCTT	CTCCTTAGAG	AAAAGACTGG	CTGACTTAGG	TGTTGACAGA	3720
AAATCTTGTC	ATATCGATTT	GGTGCCTGAA	AACTTTATCG	AATCACCTCA	AGGACGACTT	3780
TATTTGATTG	ACTGGGAATA	TTCATCAATG	AATGATCCAA	TGTGGGATTT	GGCTGCCCTC	3840
TTTTTAGAGT	CTGAATTCAC	TTCCCAAGAG	GAAGAAACTT	TCTTATCTCA	CTATGAGAGT	3900
GACCAAACAC	CGGTTTCTCA	TGAAAAGATT	GCTATTTATA	AAATTTTACA	AGATACTATT	3960
TGGAGTCTAT	GGACTGTCTA	TAAGGAAGAG	CAAGGTGAAG	ATTTTGGTGA	CTATGGTGTG	4020
AATCGTTACC	AAAGAGCTAT	TAAAGGTTTG	GCTTCTTATG	GAGGTTCAGA	TGAAAAGTAA	4080
AAACGGAGTT	CCTTTTGGCC	TTCTCTCAGG	TATTTTCTGG	GGCTTGGGTC	TAACGGTTAG	4140
TGCTTATATC	TTTTCGATTT	TTACAGATTT	GTCACCCTTT	GTGGTGGCTG	CAACTCATGA	4200

TTTTTTGAGC	ATCTTTATCT	TACTAGCTTT	TCTCTTGGTA	AAAGAAGGGA	AAGTTCGCCT	4260
CTCAATTTTC	TTAAATATTC	GCAATGTCAG	TGTTATCATC	GGAGCCTTGC	TAGCAGGCCC	4320
TATCGGTATG	CAGGCCAATC	TTTATGCAGT	TAAGTATATC	GGAAGTTCTT	TAGCTTCATC	4380
TGTATCGGCT	ATTTACCCTG	CGATTTCAGT	TCTATTGGCT	TTCTTCTTTT	TGAAGCACAA	4440
GATTTCGAAA	AATACTGTAT	TTGGGATTGT	CTTGATTATT	GGAGGGATTA	TTGCTCAGAC	4500
CTATAAGGTT	GAACAGGTTA	ATTCTTTCTA	CATTGGGATT	CTTTGTGCTT	TGGTTTGTGC	4560
TATTGCATGG	GGAAGTGAGA	GTGTTCTTAG	CTCTTTTGCC	ATGGAAAGTG	AATTGAGTGA	4620
AATCGAAGCC	CTCTTAATCC	GTCAAGTAAC	TTCGTTCTTG	TCCTATCTTG	TGATTGTGCT	4680
CTTCTCTCAT	CAGTCATTTA	CTGCAGTAGC	CAATGGACAA	TTGCTAGGTC	TCATGATTGT	4740
TTTTGCAGCC	TTTGATATGA	TTTCCTACTT	GGCTTATTAT	ATCGCTATCA	ATCGCTTGCA	4800
ACCAGCCAAG	GCTACAGGCT	TGAACGTGAG	CTATGTAGTA	TGGACGGTCT	TGTTTGCAGT	4860
TGTTTTCTTG	GGTGCACCGC	TAGATATGCT	GACCATTATG	ACGTCACTTG	TCGTCATTGC	4920
TGGAGTTTAT	ATTATTATTA	AAGAATAAAG	GAGATTCGTG	TGAAAGCCAT	TATCTTAGCA	4980
GCGGGATTGG	GAACTCGCTT	GCGTCCTATG	ACTGAAAATA	CCCCTAAAGC	CTTGGTTCAG	5040
GTTAATCAAA	AACCTTTGAT	TGAGTACCAA	ATTGAGTTTC	TCAAAGAAAA	AGGAATCAAT	5100
GACATCATCA	TCATTGTTGG	TTATCTTAAA	GAACAATTCG	ATTACTTGAA	AGAGAAATAC	5160
GGTGTTCGTC	TCGTTTTCAA	TGATAAATAC	GCTGACTACA	ATAACTTTTA	CTCTCTCTAT	5220
CTTGTAAAAG	AAGAATTGGC	CAACAGCTAT	GTTATTGATG	CTGACAATTA	TCTCTTTAAA	5280
AATATGTTCC	GCAATGATTT	GACACGTTCG	ACTTATTTTA	GTGTTTATCG	TGAAGATTGT	5340
ACCAACGAAT	GGTTCTTGGT	TTATGGAGAT	GACTACAAGG	TTCAAGACAT	TATTGTTGAT	5400
AGCAAGGCAG	GTCGCATCCT	TAGTGGTGTA	TCCTTCTGGG	ATGCTCCAAC	TGCAGAAAAG	5460
ATTGTCAGCT	TTATCGACAA	GGCTTATGTA	AGTGGTGAAT	TTGTTGATCT	CTATTGGGAC	5520
AATATGGTTA	AGGATAATAT	CAAAGAGCTA	GATGTCTATG	TTGAAGAATT	AGAAGGCAAT	5580
AGCATTTATG	AGATCGATAG	TGTCCAAGAC	TATCGTAAAT	TAGAAGAAAT	TCTTAAAAAC	5640
GAAAATTAAA	GATTCCAACA	TCTGACAAAA	TAGTCGGATG	TTTTTTGATT	TTTTACGAAC	5700
TTTTACGAAT	AGATAGATGA	GTAGAAAAAG	AAATGGAGTT	ATTTATGAAA	ATCACAAACT	5760
ATGAAATCTA	TAAGTTAAAA	AAATCAGGTT	TGACCAATCA	ACAGATTTTG	AAAGTGCTAG	5820
AATACGGTGA	AAATGTTGAT	CAGGAGCTTT	TGTTGGGTGA	TATTGCAGAT	ATCTCAGGTT	5880
GCCGTAATCC	AGCCGTTTTT	ATGGAACGTT	ATTTTCAGAT	AGACGATGCG	CATTTGTCGA	5940

AAGAGTTTCA	AAAATTTCCA	ТСТТТСТСТА	818 TTTTAGATGA	CTGTTATCCT	TGGGATTTGA	6000
GTGAAATATA	TGATGCGCCT	GTACTTTTAT	TTTACAAGGG	AAATCTTGAC	CTCCTGAAAT	6060
TCCCGAAGGT	AGCGGTCGTG	GGCAGTCGTG	CTTGTAGCAA	ACAGGGAGCT	AAGTCAGTTG	6120
AAAAAGTCAT	TCAAGGCTTG	GAAAATGAAC	TGGTTATTGT	CAGTGGTCTG	GCCAAGGGCA	6180
TTGACACAGC	AGCTCATATG	GCAGCTCTTC	AGAATGGCGG	AAAAACCATT	GCAGTGATTG	6240
GAACAGGACT	GGATGTGTTT	TATCCTAAAG	CCAATAAACG	CTTGCAAGAC	TACATCGGCA	6300
ATGACCATCT	GGTTCTAAGT	GAATATGGAC	CTGGTGAACA	ACCTCTGAAA	TTTCATTTTC	6360
CTGCCCGTAA	TCGCATCATT	GCTGGACTTT	GTCGTGGTGT	GATTGTAGCA	GAGGCTAAGA	6420
TGCGTTCAGG	TAGTCTCATT	ACGTGTGAGC	GAGCAATGGA	AGAAGGACGC	GATGTCTTTG	6480
CTATTCCTGG	TAGCATTTTA	GATGGACTAT	CAGACGGTTG	CCATCATTTG	ATTCAAGAAG	6540
GAGCAAAATT	GGTCACCAGT	GGGCAAGATG	TTCTTGCGGA	ATTTGAATTT	TAAAAATGAC	6600
CTAAGCTAGA	ATTCTAAGAA	AAAATCAATT	TTAAGAGAAA	ATGAACCCAA	CATTTCCATA	6660
ATAAAACGCA	TATTAGCAAG	TTTTTAACAC	TTGATAATAT	GCGTTTTTTC	TAAGTGGATT	6720
AGTAGAGTAG	AGGATTTTTC	TCATATAATA	CTCTTCGAAA	ATCTCTTCAA	ACTACGTCAG	6780
CTTCCATCTG	CAACCTCAAA	ACAGTATTTT	GAGCgaCTtC	GTCAGTCTTA	TCTACAACCT	6840
CAAAGCAGTG	CTTTGAGCAA	CCTGTGGCTA	GCTTCCTAGT	TTGCGCTTTG	ATTTTCATTG	6900
AGTATAAGGG	AAAGTATAGT	GAATTGAAAT	AAGATGTGAA	CAACTCTATC	AGGAAAGTCA	6960
AATTAATTTA	TAGAAATATT	TTAGCAGCCA	AGGTGTACTG	TTATAGATTC	AATTACACTA	7020
TAATTTAGTG	TAATTGAGAA	AGGAGAAATG	ATTGTGATTG	ATGTTGGCTA	GGTTATGTTC	7080
AATGATTCCT	ACCGTCTCAA	ATCTTGTCAG	TAAGGAAAAA	TAAATTCTTC	AAAAGTAGAG	7140
ATTACAAGGC	TTGTTTAAGA	AAGAATTCAA	AGACCTTGAC	АААТАААААТ	AAAATGGTTA	7200
ТТАТАААААА	TGGTCTGAAA	TAGATGATGA	TACTTTTCGA	AAATCTCTTC	AAATACGTCA	7260
GCTCAGCTTT	GCCTTGCTGT	GTTTTGAGCA	AGCTACGGTT	AGCTTCCGAG	TTTGATTT	7320
ATTTACTAGA	AATGAAACTG	ATGAGAGATA	TCAGTAGACA	TTTGAGTCAG	GATATTATGG	7380
AAAATGATAA	AAAGAGCTCG	TGAGATTGGC	ATATCAGACT	ACTAAAGTAT	TGAGTTTGTT	7440
AGGATTTTAG	CGACTAGTTA	GCTGGGAAAG	GAAGATATTT	GTGACAAATA	ATAAACTGTA	7500
TTCGTTGATA	GAATTTAGAA	АТААААТАТА	TGAAGAATTA	GAACTTTCCA	GAAGTGATTT	7560
AGCGATTTTA	CTATGTGCCA	TGCTTATCGC	CTCTATCGGA	TTAAATATGG	ATTCGACTCC	7620
CGTGATTATT	GGAGCCATGT	TAATCTCTCC	TTTGATGACA	CCTATTCTGG	GAGTGGGGCT	7680
CTCTCTAGCT	ATATTTGATT	TTAAATTGTT	AAGAAAATCT	ТТТААААТАТ	TAGCTATTCA	7740

819

AATTCTTGCC AGTCTAATAG CTTCAACACT TTATTTTAT CTTTCTCCCA TTTCGTATGC 7800
TAGTTCGGAG ATTGTTGCTA GAACCTCTCC GACTATTTGG GATGTTCTCA TTGCTTTTGT 7860
AGGAGGGATA GCAGGTATCA TTGGTGCTAG GAAAAAAGAG AC 7902

# (2) INFORMATION FOR SEQ ID NO: 113:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

GAAGTTGAAA TGGCCAGCTG ATGAGCAATA TCGGTCATAG AAATCTTCTC AATCAACTTT 60 TGCGCAATTT TTTGGTTGAT AATACGAGGA ATTTGGTGAT TTTTCTTGAC GATAGAAGTT 120 TCAGCGACCA TCATTTTTGA ACAGTGATAG CACTTGAAAC GACGCTTTCT AAGTAGAATT 180 CTAGTAGGCA TACCAGTTGT CTCAAGGTAA GGAATCTTAG ACGGTTTTTG AAAGTCATAT 240 TTCTTCAATT GGTTTCCGCA CTCAGGGCAA GATGGGGCGT CGTAGTCCAG TTTGGCGATG 300 ATTTCCTTGT GTGTATCTTT ATTGATGATG TCTAAAATCT GGATATTAGG GTCTTTAATG 360 TCTAGTAATT TTGTGATAAA ATGTAATTGT TCCATATGAA TCTTTCTAAT GAGTTGTTTG 420 GTCGCTTTTC ATTATAGGTC ATATGGGACT TTTTTTCTAC AATAAAATAG GCTCCATAAT 480 ATCTATAAGG GATTTACCCA CTACAAATAT TATAGAGCCA AAAATCCTTT GTTTACTAAA 540 CAAGGGATTT TTCTTTTGTC TCTGCTCCTT TTTTGATATA ATAGTTCTAT GTTAAAATCA 600 GAAAAACAAT CACGTTATCA AATGTTAAAT GAAGAATTGT CCTTCCTATT GGAAGGCGAA 660 ACCAATGTTT TGGCTAATCT TTCCAACGCC AGTGCTCTCA TAAAATCACG TTTTCCTAAT 720 ACCGTATTTG CAGGCTTTTA TTTGTTCGAT GGAAAGGAAT TGGTTTTAGG CCCCTTCCAA 780 GGAGGTGTTT CCTGCATCCG TATTGCACTA GGCAAGGGTG TTTGTGGTGA GGCAGCTCAC 840 TTTCAGGAAA CTGTTATTGT TGGAGATGTG ACGACCTATC TCAACTATAT TTCTTGTGAT 900 AGTCTAGCTA AAAGTGAAAT TGTGGTGCCG ATGATGAAGA ATGGTCAGTT ACTTGGAGTT 960 CTGGATCTGG ATTCTTCAGA GATTGAGGAT TACGATGCTA TGGATCGAGA TTATTTGGAA 1020 CAATTTGTCG CTATTTTGCT TGAAAAGACA GCATGGGACT TTACGATGTT TGAGGAAAAA 1080 TCTTAATGTA TCAAGCACTT TATCGAAAAT ATAGAAGTCA AAACTTCTCC CAGTTAGTTG 1140 GTCAAGAAGT TGTGGCTAAG ACTCTTAAAC AAGCGGTGGA GCAAGAGAAA ATAAGTCACG 1200

			820			
CTTATCTTTT	TTCTGGTCCT	CGTGGAACGG	GAAAAACCAG	TGTTGCTAAA	ATCTTTGCCA	1260
AGGCTATGAA	CTGTCCCAAT	CAAGTGGGTG	GCGAACCTTG	CAATAACTGC	TATATTTGTC	1320
AAGCAGTGAC	GGACGGTAGT	TTAGAAGATG	TCATTGAAAT	GGATGCAGCT	TCTAATAATG	1380
GGGTAGATGA	AATTCGCGAA	ATTCGTGATA	AATCTACCTA	TGCGCCTAGC	CTTGCTCGTT	1440
ATAAGGTTTA	TATCATAGAT	GAGGTTCACA	TGCTGTCTAC	AGGGGCTTTT	AATGCCCTCC	1500
TAAAGACGCT	GGAAGAACCA	ACACAGAATG	TAGTCTTTAT	TTTGGCCACT	ACTGAATTGC	1560
ACAAGATTCC	TGCTACTATT	CTATCCCGTG	TGCAACGTTT	TGAGTTTAAA	TCAATTAAGA	1620
CACAGGATAT	TAAGGAACAT	ATTCACTATA	TCTTAGAAAA	AGAAAATATC	AGTTCTGAAC	1680
CAGAGGCTGT	GGAAATCATT	GCCAGACGGG	CGGAAGGTGG	AATGCGGGAC	GCCTTGTCTA	1740
TTTTGGATCA	AGCCCTGAGT	TTGACACAGG	GAAATGAGCT	GACGACTGCT	ATCTCTGAAG	1800
AAATTACTGG	CACCATTAGC	CTATCAGCCT	TGGATGATTA	TGTGGCGGCC	TTGTCTCAAC	1860
AGGATGTTCC	CAAAGCTTTG	TCTTGCTTGA	ATCTTCTTTT	TGACAATGGT	AAGAGCATGA	1920
CTCGTTTTGT	GACCGATCTT	TTGCACTATT	TAAGAGACTT	GTTAATTGTT	CAAACAGGGG	1980
GAGCAAATAC	TCATCATAGT	TCAGTCTTTG	TAGAAAATTT	GGCACTTCCT	CAAAAAAATC	2040
TGTTTGAAAT	GATTCGCTTA	GCAACAGTGA	GTTTAGCAGA	TATTAAGTCT	AGTTTGCAAC	2100
CCAAGATTTA	TGCTGAAATG	ATGACCGTCC	GTTTGGCGGA	AATCAAGTCC	GAACCAGCTC	2160
TATCAGGAGC	GGTTGAAAAT	GAAATTGCTA	CGCTGAGACA	GGAAGTTGCC	CGTCTCAAAC	2220
AAGAGCTTTC	TAATGTAGGT	GCGGTTCCTA	AACAAGTTGC	ACCAGCTCCT	AGTCGACCAG	2280
CTACGGGCAA	AACAGTCTAT	CGTGTCGATC	GCAATAAAGT	GCAATCTATC	TTACAAGAGG	2340
CCGTCGAAAA	TCCTGATTTA	GCACGTCAAA	ATTTAATTCG	TTTGCAGAAT	GCCTGGGGAG	2400
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CTGCCAATGA	ACACCATGCT	ATTCTTGCTT	TTGAGTCTAA	CTTCAATGCT	GGTCAAACTA	2520
TGAAACGAGA	CAATCTCAAT	ACCATGTTTG	GTAATATCCT	CAGTCAGGCG	GCAGGTTTTT	2580
CACCTGAGAT	TTTAGCTATT	TCCATGGAGG	AATGGAAAGA	AGTTCGCGCA	GCCTTTTCAG	2640
CCAAAGCCAA	ATCTTCTCAA	ACTGAAAAAG	AAGTAGAAGA	AAGCCTGATT	CCAGAAGGAT	2700
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FACTCTTTAG	AAATTTCCGA	GTCAGTTATG	TGATGGGCAA	AATCGTTGAT	GTCATCGATC	2940
AGCATTTTAA	TAGGAAAGAC	TAGCCCTCAG	CTTCCAGACA	AAATCAAAGC	CTTTTAGGCT	3000

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GACTCTTTCT	GCCGCTATCA	TGGGAAATCC	AAACTATGAA	GTAACTAAAG	GTGAAGTTTT	3300
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CCTTGCTATG	CAATACCCAT	CAGAAATCCC	TGGAATTACC	AATGCTGAGT	TTCTTCGTGC	3420
CGCTATGAAT	GCGGGTAAAG	AAGATGATGA	GAAGATTTCA	GTTCGTGAGT	ТТАТТАСТАА	3480
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			824			
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GACCACGGTT	ATGTAACAGA	TTTTGAAACA	TTTAAAGAAG	GAATTTTGGC	GCGTGAAGCT	14100
TTGACTTCTA	CTGGTTTGGG	TGATGGAATC	GCAATGCCTC	ACAGCAAAAA	CGCTGCTGTC	14160
AAAGAAGCGA	CAGTTCTATT	TGCTAAGTCA	AATAAGGGTG	TTGACTACGA	GAGCTTGGAT	14220
GGACAAGCAA	CTGACCTCTT	CTTCATGATT	GCAGCTCCAG	AAGGTGCCAA	TGATACTCAC	14280
TTGGCAGCCT	TGGCAGAATT	GTCTCAATAC	TTGATGAAAG	ACGGTTTTGC	AGACAAACTT	14340
CGTCAAGCAA	CATCTGCAGA	CCAAGTTATC	GAACTTTTTG	ACCAAGCTTC	AGAAAAAACT	14400
GAGGAACTTG	TTCAAGCACC	TGCTAATGAC	TCTGGTGACT	TTATCGTAGC	TGTTACAGCT	14460
TGTACAACAG	GTATTGCCCA	CACTTACATG	GCCCAAGAAG	CCCTTCAAAA	AGTAGCTGCT	14520
GAAATGGGGG	TTGGTATCAA	GGTCGAAACC	AACGGTGCTA	GCGGTGTTGG	AAATCAACTA	14580
ACTGCAGAAG	ATATCCGTAA	GGCTAAAGCT	ATTATCATTG	CAGCAGACAA	GGCCGTTGAA	14640
ATGGATCGAT	TTGATGGAAA	ACCATTGATC	AATCGTCCAG	TTGCTGACGG	TATCCGTAAG	14700
ACAGAAGAGC	TAATTAACTT	GGCTCTTTCA	GGAGATACTG	AAGTCTACCG	TGCCGCTAAT	14760
GGTGCCAAAG	CTGCAACAGC	CTCTAACGAA	AAACAAAGCC	TTGGTGGTGC	CTTGTACAAA	14820
CACTTGATGA	GTGGTGTATC	TCAAATGTTA	CCATTCGTTA	TCGGTGGTGG	TATCATGATT	14880
GCCCTTGCCT	TCTTGATTGA	CGGTGCTTTG	GGTGTTCCAA	ATGAAAACCT	TGGCAATCTT	14940
GGTTCTTACC	ATGAGTTAGC	TTCTATGTTC	ATGAAAATTG	GTGGAGCTGC	CTTTGGTTTG	15000
ATGCTTCCAG	TCTTTGCGGG	TTATGTTGCC	TACTCTATTG	CTGAAAAACC	GGGTTTGGTA	15060
GCAGGTTTCG	TGGCTGGTGC	TATTGCCAAA	GAAGGTTTTG	CCTTTGGTAA	AATTCCTTAT	15120
GCCGCAGGTG	GTGAAGCAAC	TTCAACTCTT	GCAGGTGTCT	CATCTGGTTT	CCTAGGTGCC	15180
CTTGTTGGTG	GATTTATCGC	AGGTGCCTTG	GTTCTTGCCA	TCAAGAAATA	CGTTAAAGTT	15240
CCTCGTTCAC	TCGAAGGTGC	TAAATCAATC	CTTCTATTGC	CACTTCTTGG	AACAATCTTG	15300
ACAGGATTTG	TTATGCTAGC	TGTGAATATC	CCAATGGCTG	CAATCAACAC	TGCTATGAAT	15360

828 GACTTCCTAG GCGGTCTTGG AGGAGGTTCA GCTGTCCTTC TTGGTATCGT CCTTGGTGGA 15420 ATGATGGCTG TTGACATGGG TGGACCAGTT AATAAAGCAG CTTATGTCTT TGGTACAGGT 15480 ACGCTTGCAG CAACTGTTTC TTCAGGTGGT TCTGTAGCCA TGGCAGCAGT TATGGCTGGA 15540 GGAATGGTGC CACCACTTGC AATCTTTGTC GCAACTCTTC TTTTCAAAGA TAAATTTACT 15600 AAGGAAGAAC GTAACTCTGG TTTGACAAAC ATCATCATGG GCTTGTCATT TATCACTGAG 15660 GGAGCGATTC CATTTGGTGC CGCTGACCCA GCTCGTGCGA TTCCAAGCTT CATCCTTGGT 15720 TCAGCAGTAG CAGGTGGACT CGTTGGTCTT ACTGGTATCA AACTCATGGC GCCACACGGA 15780 GGAATCTTCG TTATCGCCCT TACTTCAAAT GCTCTCCTTT ACCTCGTTTC TGTCTTGGTA 15840 GGAGCAATCG TAAGTGGTGT GGTTTATGGT TACCTACGCA AACCACAAGC ATAAAAAATA 15900 GAAAAATGAA AAGATTGGAC CGTTTGGTGC AGTCTTTTTC TCTTCCCGAA ATGCCTGTGA 15960 AATATGGTAT AATAGAAGAA TGGCAAACAA GAATACAAGT ACAACAAGAC GGAGACCGTC 16020 TAAAGCAGAA CTGGAAAGAA AAGAAGCGAT TCAACGAATG TTGATTTCGT TAGGAATTGC 16080 GATTTTATTG ATTTTCGCAG CCTTCAAATT AGGGGCTGCA GGTATAACCC TTTATAATTT 16140 AATTCGCTTG CTAGTGGGTA GCCTAGCTTA TCTGGCGATA TTCGGCCTAT TAATCTATCT 16200 CTTCTTTTC AAGTGGATAC GAAAACAGGA AGGACTCTTA TCTGGCTTTT TCACCATATT 16260 TGCTGGCTTA CTCTTGATTT TTGAGGCCTA CTTGGTTTTGG AAATATGGTT TGGACAAGTC 16320 CGTTCTAAAA GGGACCATGG CTCAGGTTGT GACAGATCTG ACTGGTTTTC GAACGACTAG 16380 CTTTGCTGGA GGGGGCTTGA TCGGGGTCGC TCTTTATATT CCAACAGCCT TTCTCTTTTC 16440 AAATATCGGA ACTTACTTTA TTGGTTCTAT CTTGATTTTA GTGGGTTCTC TCCTAGTCAG 16500 CCCTTGGTCT GTTTACGATA TTGCTGAATT TTTCAGTAGA GGCTTTGCCA AATGGTGGGA 16560 AGGGCACGAG CGTCGAAAAG AGGAACGCTT TGTCAAACAA GAAGAAAAAG CTCGCCAAAA 16620 GGCTGAGAAA GAGGCTAGAT TAGAACAAGA AGAGACTGAA AAAGCCTTAC TCGATTTGCC 16680 TCCTGTTGAT ATGGAAACGG GTGAAATTCT GACAGAGGAA GCTGTTCAAA ATCTTCCACC 16740 TATTCCAGAA GAAAAGTGGG TGGAACCAGA AATCATCCTG CCTCAAGCTG AACTTAAATT 16800 CCCTGAACAG GAAGATGACT CAGATGACGA AGATGTTCAG GTCGATTTTT CAGCCAAAGA 16860 AGCCCTTGAA TACAAACTTC CAAGCTTACA ACTCTTTGCA CCAGATAAAC CAAAAGATCA 16920 GTCTAAAGAG AAGAAAATTG TCAGAGAAAA TATCAAAATC TTAGAAGCAA CCTTTGCTAG 16980 CTTTGGTATT AAGGTAACAG TTGAACGGGC CGAAATTGGG CCATCAGTGA CCAAGTATGA 17040 AGTCAAGCCG GCTGTTGGTG TAAGGGTCAA CCGCATTTCC AATCTATCAG ATGACCTCGC 17100 TCTAGCCTTG GCTGCCAAAG ATGTCCGGAT TGAAGCACCA ATCCCTGGGA AATCCCTAAT 17160

CGGAATTGAA	GTGCCCAACT	CCGATATTGC	CACTGTATCT	TTCCGAGAAC	TATGGGAACA	17220
ATCGCAAACG	AAAGCAGAAA	ATTTCTTGGA	AATTCCTTTA	GGGAAGGCTG	TTAATGGAAC	17280
CGCAAGAGCT	TTTGACCTTT	CTAAAATGCC	CCACTTGCTA	GTTGCAGGTT	CAACGGGTTC	17340
AGGGAAGTCA	GTAGCAGTTA	ACGGCATTAT	TGCTAGCATT	CTCATGAAGG	CGAGACCAGA	17400
TCAAGTTAAA	TTTATGATGG	TCGATCCCAA	GATGGTTGAG	TTATCTGTTT	ACAATGATAT	17460
TCCCCACCTC	TTGATTCCAG	TCGTGACCAA	TCCACGCAAA	GCCAGCAAGG	CTCTGCAAAA	17520
GGTTGTGGAT	GAAATGGAAA	ACCGTTATGA	ACTCTTTGCC	AAGGTGGGAG	TTCGGAATAT	17580
TGCAGGTTTT	AATGCCAAGG	TAGAAGAGTT	CAATTCCCAG	TCTGAGTACA	AGCAAATTCC	17640
GCTACCATTC	ATTGTCGTGA	TTGTGGATGA	GTTGGCTGAC	CTCATGATGG	TGGCCAGCAA	17700
GGAAGTGGAA	GATGCTATCA	TCCGTCTTGG	GCAGAAGGCG	CGTGCTGCAG	GTATCCACAT	17760
GATTCTTGCA	ACTCAGCGTC	CATCTGTTGA	TGTCATCTCT	GGTTTGATTA	AGGCCAATGT	17820
TCCATCTCGT	GTAGCATTTG	CGGTTTCATC	AGGAACAGAC	TCCCGTACGA	TTTTGGATGA	17880
AAATGGAGCA	GAAAAACTTC	TTGGTCGAGG	AGACATGCTC	TTTAAACCGA	TTGATGAAAA	17940
TCATCCAGTT	CGTCTCCAAG	GCTCCTTTAT	CTCGGATGAC	GATGTTGAGC	GCATTGTGAA	18000
CTTCATCAAG	ACTCAGGCAG	ATGCAGACTA	CGATGAGAGT	TTTGATCCAG	GTGAGGTTTC	18060
TGAAAATGAA	GGAGAATTTT	CGGATGGAGA	TGCTGGTGGT	GATCCGCTTT	TTGAAGAAGC	18120
TAAGTCTTTG	GTTATCGAAA	CACAGAAAGC	CAGTGCGTCT	ATGATTCAGC	GTCGTTTATC	18180
AGTTGGATTT	AACCGTGCGA	CCCGTCTCAT	GGAAGAACTG	GAGATAGCAG	GTGTCATCGG	18240
TCCAGCTGAA	GGTACCAAAC	CTCGAAAAGT	GTTACAACAA	тааааааата	GCTTCTTTCC	18300
AAGTTTGGAG	GGAAGCTATT	TTAGTGGCTA	TTGATTGCTT	TTATTTTCTG	AAGTTGGCGC	18360
ATTGGACTGT	TTTTCGTTTT	CAGTAGCAGG	TTTACTTGAA	GCAGGAGTAG	AAGAGTCCTG	18420
AGTTGCTGTT	TTCTGATCTT	CTTTTTTCTC	TTCCTTGACG	CTAGATTTTG	GTGTTTCCTC	18480
TTGCTGTGTT	TTTTCTTGAC	TAGTGTTAGT	CTCTTTAGTT	GGACTGGTGT	TTTCCTTAGG	18540
GGATTCCTTT	TGGATTTCTT	TGACAATGGT	TGTCGTCTGG	CTTGTCGTAG	GTTCTTTTTT	18600
AATATTTTTG	TTATTATCCA	AGGCGTT				18627

# (2) INFORMATION FOR SEQ ID NO: 114:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 2560 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

830

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

TAAAATACGT	TACCTTGCTT	CTGCACGTTC	AGCAGGTAAG	TCATTGAAAT	TTAAAGATCA	60
AGATATTACA	ATTGAAGAAA	CGACTGAAAC	AGCTTTTGAA	GGAGTTGATA	TTGCTCTCTT	120
TTCAGCAGGT	AGTTCTACAT	CAGCTAAGTA	TGCACCATAC	GCAGTAAAAG	CTGGCGTGGT	180
AGTAGTAGAT	AATACATCTT	ATTTCCGTCA	AAATCCAGAT	GTTCCTTTGG	TTGTTCCAGA	240
GGTCAATGCT	CATGCACTTG	ATGCTCACAA	CGGAATCATT	GCCTGCCCTA	ATTGTTCAAC	300
AATTCAAATG	ATGGTGGCTC	TTGAGCCGGT	TCGCCAAAAA	TGGGGCTTGG	ACCGTATCAT	360
TGTTTCAACT	TATCAAGCCG	TTTCAGGTGC	TGGTATGGGA	GCAATTCTTG	AGACACAACG	420
TGAACTTCGT	GAAGTCTTGA	ATGATGGTGT	GAAACCACGT	GATTTGCATG	CGGAAATCTT	480
GCCTTCAGGT	GGTGACAAGA	AACATTATCC	TATCGCCTTT	AACGCTCTTC	CACAAATTGA	540
TGTTTTCACT	GATAATGATT	ACACGTACGA	AGAGATGAAG	ATGACCAAGG	AAACTAAGAA	600
AATTATGGAA	GATGATAGCA	TTGCAGTATC	TGCAACATGT	GTGCGTATTC	CAGTCTTGTC	660
AGCTCACTCT	GAGTCTGTTT	ATATCGAAAC	AAAAGAAGTG	GCTCCAATCG	AAGAAGTAAA	720
AGCAGCTATC	GCAGCCTTCC	CAGGTGCTGT	TCTTGAAGAT	GATGTAGCTC	АТСАААТСТА	780
TCCTCAAGCT	ATCAATGCAG	TTGGTTCGCG	TGATACCTTT	GTTGGTCGTA	TCCGTAAAGA	840
CTTGGATGCA	GAAAAAGGAA	TTCACATGTG	GGTTGTTTCA	GATAACCTTC	TCAAAGGTGC	900
TGCTTGGAAC	TCAGTTCAGA	TTGCTGAAAC	TCTTCATGAA	CGTGGATTGG	TTCGTCCAAC	960
AGCCGAATTG	AAATTTGAAT	TAAAATAGTC	ATATCGTTTA	GGAGTTCAGA	TGAACTCCTT	1020
CTTTGAAATA	GAGAGGTGTT	TTCGTGTCTT	ATCAAGATTT	AAAAAAATGT	AAAATCATTA	1080
CAGCCTTTAT	TACCCCCTTC	CATGAGGATG	GTTCCATTAA	CTTTGATGCT	ATTCCAGCCT	1140
TGATTGAGCA	TTTATTGGCC	CATCATACGG	ATGGAATTCT	TCTCGCAGGA	ACGACTGCTG	1200
AGAGTCCAAC	TTTGACCCAC	GATGAGGAGT	TGGAGTTGTT	TGCGGCTGTA	CAAAAGGTTG	1260
TCAATGGACG	CGTTCCTTTG	ATTGCGGGTG	TAGGTACTAA	TGATACGCGT	GACTCTATTG	1320
AGTTTGTCAA	AGAAGTAGCG	GAATTTGGTG	GTTTCGCAGC	TGGGCTTGCT	ATTGTTCCTT	1380
ACTACAACAA	ACCTTCTCAA	GAAGGGATGT	ATCAGCACTT	TAAGACTATT	GCAGATGCTT	1440
CTGACCTACC	AATTATTATC	TATAACATTC	CAGGGCGTGT	AGTTGTCGAA	TTGACTCCAG	1500
AAACCATGCT	TCGCTTGGCT	GACCATCCAA	ATATTATCGG	TGTCAAAGAA	TGTACTAGCT	1560
TGGCTAATAT	GGCTTACTTG	ATTGAGCACA	AGCCTGAAGA	GTTCTTGATT	TATACAGGTG	1620
AGGATGGAGA	TGCTTTCCAT	GCCATGAACC	TTGGGGCGGA	TGGGGTTATT	TCTGTTGCCT	1680

831

CTCATACAAA	TGGGGATGAA	ATGCACGAGA	TGTTTACTGC	GATTGCAGAA	AGCGATATGA	1740
AGAAAGCCGC	AGCAATTCAG	CGTAAATTCA	TTCCTAAGGT	TAATGCTCTC	TTCTCTTATC	1800
CAAGTCCTGC	TCCAGTTAAG	GCAATTCTTA	ACTATATGGG	ATTTGAAGCT	GGACCCACTC	1860
GTCTACCTCT	TGTTCCAGCA	CCAGAAGAAG	ATGCCAAACG	CATTATCAAG	GTTGTCGTAG	1920
ATGGCGACTA	CGAAGCAACT	AAGGCAACTG	TAACAGGGGT	CTTAAGACCA	GATTACTAAT	1980
AAAGACAATA	AAATCCGGCT	CTTTGTCAAC	TGTAGTGGGT	TGAAGTCAGC	TAAGCTCGAG	2040
AAAGGACAAA	TTTTGTCCTT	TCTTTTTTGA	TATTCAGAGC	GATAAAAATC	CGTTTTTTGA	2100
AGTTTTCAAA	GTTCCGAAAA	CCAAAGGCAT	TGCGCTTGAT	AAGTTTGATG	AGATTATTGG	2160
TCGCTTCCAA	TTTGGCGTTT	GAATAGGGTA	GTTGAAGGGT	GTTGACGATT	TTCTTTTTGT	2220
CCTTTAGAAA	GGTTTTAAAG	ACAGTCTGAA	AAATAGGATG	AACCTGCTTC	AGATTGTCCT	2280
CAATGAGTCC	GAAAAATTTC	TCCGGTTCCT	TATTCTGAAA	GTGAAACAGC	AAGAGTTGAT	2340
AGAGCTGATA	GTGATGTTTC	AAGTTTTGTG	AATAGCTCAA	AAGCTTGTTT	AAAATCTCTT	2400
TATTGGTTAA	GTGCATACGA	AAAGTAGGAC	GATAAAATCG	CTTATCACTC	AGTTTACGGC	2460
TATCCTGTTG	AATGAGTTTC	CAGTAGCGCT	TGATAGCCTT	GTATTCGGGA	TTTTCGATGA	2520
AACTGATTCA	TGATTTGGAC	ACGCACACGA	CTCATAGCAC			2560

## (2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:

  (A) LENGTH: 11303 base pairs

  (B) TYPE: nucleic acid

  (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

TATTGGATTT	CCCTTGCAAT	CAGTTTATGG	GACAAGCACC	CGGCAGCGCA	GAGGAAATCA	60
ACGCCTTCTG	TAGCCTACAT	TTTCAAACCA	CCTTCCCACG	TTTTGCCAAG	ATTAAGGTCA	120
ACGGTAAGGA	AGCAGACCCT	CTCTATGTCT	GGTTACAAGA	CCAGAAATCC	GGCCCACTAG	180
GAAAACGAGT	CGAATGGAAT	TTCGCTAAGT	TTCTCATCGG	TCGAGATGGG	CAAGTCTTTG	240
AACGCTTTTC	TTCAAAAACA	GACCCAAAAC	AAATTGAAGA	GGCGATACAA	ACTCTACTAT	300
AATTCACAAT	CTCACTATGA	TTAGGTTTCC	TTTAACCTGA	TGAATAGTGA	GATTTTTTGA	360
TGGGCTTTGA	CTTAAATAGA	AAAACACCCC	ATGATATGAA	ACATGAAGTG	TTGTAAAGTC	420
TATGTTGTAG	GTGCTTATTT	CACAATTTCA	ATGTGACCAG	TGATAACGAA	TACCATACAG	480

			832			
AATCTTCATA	TACACTAAAC	AAATGACTTT	CTAATTATTT	CAATTAGTTT	TGGCTAGTAA	540
ATATCATTTC	CAACAAACGC	CCTCTCAATT	CCTTATCCTG	ATGATGCAAG	ATATTCATTA	600
AGTCATGAGA	GTTTTTCGCA	TTGATGAATT	GATTTAACAA	TCTATCTTTT	AATTCATATG	660
GAAGAGAAGC	TGTCTTTAGT	AGTCTAAAAA	CTTCGTCATT	TAAAGATGTC	CTTTTATTAT	720
CTTTCCATTC	AAATTTAGCT	GTATCATTCT	TATTTGGCAA	TTCAATTATA	GACACATTCG	780
TTCCTTTAAA	ATGAATTCTA	TGTTTTCTAT	TGCTTGGAAC	GATACTAGAA	TCTCCTTGTA	840
ATGCTAACTC	TACCATTCCC	ATTTCCCAAT	CGATTGATAA	TCTTGTTTTA	TATCTTTGAC	900
CATTTTGATC	TTCAAGCATT	TCAAAAGAAT	GTTGTTTTCC	TGGGAATACA	TACCAATCTA	960
CAACTTCAGG	TAAATCAACA	CCCATACCTA	TCTCAGAACC	AACCAAGGGA	ATGATTGCAC	1020
CACTTTTTGC	AAACACAGGC	GTAGTCGAGA	TGTCCCTATA	AACACTTAAC	TTCACACCAC	1080
CTGTGTATTT	TTTCTCTGAA	AAGAAGTCAT	ACCATTCACC	TTCAGGGAAC	CATACATCTA	1140
CTTTTGCAGA	TTGGAATGTC	AAATCCATCT	TTTCTACAAT	GGGAGCCACC	ATCAGTTCTG	1200
PTCCAAAAAA	GTATTGGTTT	GGAACATTAT	AGCTCTCATC	ATTCTCTGGA	TAGAAATAAT	1260
AGATTGGACT	GATTAATGGG	GCACCTTCCT	CATGTGTCTG	TACATTCATG	GTATATAGAT	1320
AGGGAATCAT	CTGATGTCTC	AAACGAAGGT	ATTTCTTCAT	AATCTTAGAT	GTTGTTTCTG	1380
AAAAAAACCA	AGGTTCTTTA	CTATTAAAAG	GACTTCTAGA	ACTATGTAAT	CGAGTAATCG	1440
GACTAAAAAC	ACCAAACTGT	AGCCATCTAG	TTTGTAGCTC	TTCGTCATAA	TCCCCCAACA	1500
PATGTCCACC	GATATCATGA	CTCCACCAAC	TATAACCGAT	ATTAGATGCT	GTCGCTGTAA	1560
AATAGGGTTG	AAATCTTAAG	GAATTCCAAC	TAATAATAGT	ATCCCCTGAA	AAACCAACAG	1620
GTAGCGGTG	ACTACCAGGA	CCTGCATATC	TTGATAAAAT	CAAACCACCT	TCTGCATTTT	1680
PACAACTATC	CTGATAGTGA	TAATGGTTTA	AAAGCCAAAG	TGGATCTAGC	ATACCTTGTG	1740
PCCCTTGTTG	CCAGTCAATC	CACCAAAAAT	CTACTCCCTG	CTTTTCTAGT	TCATAATGAA	1800
CATCTTTAAA	GTAGGCTTCC	CTAAAAGAGG	GATTAAAAAA	ATCAAAAATA	GCAGGTTCTT	1860
CTAGTTCTAC	ATTTAACCCC	AACCGTTTTG	CGATTTGAGG	ATAAGCTTCT	TCATAAGCCC	1920
GTATCCCATC	AGCAGGATGG	ACATTTAAGG	AGAGTTTTAG	CTTTCTATCA	TGAAGTTGTT	1980
GCAATAACTG	TTCTGGATTT	GGTATTAAGT	TTCTATTCCA	ACTATATCCT	GTCCAGCCAC	2040
TTCCAAAGCG	AGCTGGAATG	TCAGTTATAT	GCCAATCCAT	ATCTAACACA	CCGATAGATA	2100
ATGGAATTTT	CTCTGTTTCA	AATCTGTCTA	TTAAATCCAA	GTATTCATCC	GACGTATAAG	2160
GCCAATATCT	ACTCCACCAA	TTGCCTAAAG	CATATCTTGG	CAACAAGGGT	GTTGAACCAG	2220
CAAATGGTA	AAAATCTCTG	ATTGCTCCTC	TATAATCATG	CCCATAGGCA	AAGAAATACA	2280

GGTCAATTTG	ATTTTCTCTC	TCAATATAAC	CAGATTGTTC	ATCCCAAATA	AATCCTTGAG	2340
AATCATCCAA	TAAGGCTATA	CCATTTCGGC	TAATAATTCC	ATCTTCTAAC	GAGATTGCTC	2400
CATCTGCCTT	ATCCAGAGTC	CGAGCTGTTC	CTTTTAACGT	TTCAATAGAT	TCACCAAAAT	2460
ACCAGCGACT	ACCATATACG	GCAAAATTTC	CTTTTAATTC	ТАТАААТААА	TTTTCGGCGT	2520
TAAATTCTCC	TTTATTAAAG	TGCAGATGAA	AATAGTCCGT	CATAATATCT	AGTACGTTTG	2580
ATGTCTCGAT	ATAATCTAAC	GAAATTTGGC	CAAAATCTCT	ATTATAGATA	AGTTGTGTCG	2640
TTCTATCCTC	AAAACTTCCA	GTTTGAGAGT	ATTCTAACCT	TACTAGCTTG	TCTGTTAATA	2700
CAGAGATTCG	ATAAAACTCT	CCCTTAAAAA	TTTTCAATTT	GTTTTCCTCC	TTTTATGGTA	2760
GCATAAAAAC	AGAACGCACC	ATTTTTGATG	CGTTTTTCAT	TATTCTGAAT	GCAATGTTCT	2820
ATCTGTTATA	TCTATGACAA	ATAATAGTCA	ATTGAAAAAA	TGCAGTGGAC	AAAATATCTT	2880
TTAACAAACC	AAGAGTTTAT	TAAAGAGTTA	TCACTTTTCA	ACTTTTCTAA	GCTTATGCAG	2940
TTGTGAAACA	AACTACTTTT	AAACTATTAA	CTAAGATAGG	ATTGATAAAT	AATTTCAAAC	3000
TCTTACTAGC	AATCATACGA	TATTCAAGCT	CACGTGCTTT	TTTCCTTCCT	GCTTATTTCT	3060
TAGAACTGAA	GAACCCGGAT	CGGTATATAA	ATTATCCGGA	TCAACATAGT	CATAAGATTC	3120
ATAACAGTTG	CGCTTCATTA	AGTCATCCCC	AGAGCAAGAG	CTTCATCTCG	TAATTTTTCA	3180
ACATCACTAA	CCGTAGGTCG	CCATCCTTCA	ATCATATTTG	TACTTAAAGC	ATACCAAACA	3240
CTCTTAAAAA	CGGATCGGTT	TTCAAAAGCT	ATTCCCATGA	TTGTCATCTT	TTCTTTATCT	3300
ATATCTAAGG	ACATATGCTA	CCTCCTTTAG	ATACATTATA	CCATGTTTCT	CTGTAGCTTT	3360
ТАААААТТТТ	ATTTTGTTTG	TCATATCTAA	GTTTTCAGCA	CGCTTATCCT	ATTTTATAAG	3420
CCTCAAACCC	АААТАТАААА	CGCATTCTTT	TTGCTTTTTT	ACTATTGTAT	CGTATTCTAC	3480
GATAACATAC	TTTACTTTAT	TGTTTTTTA	AATAACAGCA	GTTCCCTGTT	TATCAACTAT	3540
TCGAACTACT	TTCTATTTTG	CTTCATACCC	TACATAGCGA	AAAAATATGA	AAAAGCAGAG	3600
AAGAATATCT	TAAAAAGACC	TCTTCACTGC	TAATATTAAC	ACTCATTATT	ТАААСТАТАТ	3660
GGATTCTATC	ATCGAGTATA	CTTTTTTACT	TATTAGATAC	CTTGCTCTTC	TTTCACCAAT	3720
TTTTGATCAT	ATACACGGAT	GAATGGAAGA	TAGACTAGGA	ATGCTGCAAA	TGCACATACT	3780
AGAGCAACTA	ATACAGCTCG	AAGATCTGCT	GTCCCTAAGA	AAGCTCCAAT	CCCTACTGGA	3840
GTTGGCCATG	GAACCTGTGC	GATAATTGGC	TTAATAAAGT	TTAGAGAATT	CGCTACGTAA	3900
TAAATAGTAG	CAGTAACCAT	TGGTGCTAAA	ATAAATGGTA	TAGCCAAGGC	TGGATTATAG	3960
ATAATAGGTA	ATCCAAAAAT	TAATGGTTCA	TTAATATTAA	ATAAGGCTGG	AACTACAGAT	4020

834 GCTCGTCCTA TTGCTTTAAG CTGTTCAGAT TTAGAGGCAA AAGCAATATA TAAACATAGT 4080 CCTAAAGTTG CACCAGAACC ACCTGCAATT ACAAACATAT TAGAAAATTC ACCTGCAACA 4140 GCGAAGTGCC CGCCAGCAGC ATTTTCAGCC ATGTTAGCAA GAGCAATTGG ACTAACAAAT 4200 GCAAAAACAA TGTTCGCACC GTGGATACCT ACAATCCAAA GTAGTTGAGT CAATAGATAA 4260 ATAATCATTA AACCAATCCA CGAATTAGTC AGATTGGATA CAAAACCAAA TGGAATTGCA 4320 ATGACTITAA AAATATCTGT TCCCATTGCT ACAAGAAGAC CGTTGATAAA GATAACAACA 4380 AATGCAACAA CAAATCCCGG AACCAAAGCG GTAAATCCAC GAGAAACTCC TTCTGGAACA 4440 GCTTCAGGCA TTTTAATAAC CCAATTATGT TTAACACACA TACGATAAAT AAGAACAGTC 4500 ACAATTGCCA TAATGATTGC GGTAAAAATC CCTGTTGTCC CAAAACGTGC GACTACATTT 4560 CCCATTGCCC ATCCATCTGC AATTACTGCA CCTTCTTTTA GACTTGTCAC AGTCTTCATC 4620 ATTCCACCAT CAAAAATGAT TTGCGGTACT GTCATGACAA AAGCCATCAA GGCAAGCAAG 4680 GCACCATTAA GAGGATTCAT ATTGAGTTCT TCTTCCTCTG CATAAATTTT TGTCAATTCA 4740 TATGCAAGTG ATAGAACGAA ATAAAGAGAT AGAGAACCCA TAGTCGCATA GTTTGCAACC 4800 ATGTAAAGTG ATGTGAATTT ATCAAATGAA GCAGAGAAAA TATCTGCCAC AATTGGCCAA 4860 AATGAGAAAG CTTGTGGCAA AATACTGAAT ACCAAAAACA TTGATCCTAC AATAGTAAAT 4920 GGTACAGCAG CCATACCTGC AGCCGTGATA GCACGTACTA CTTTAAACTG AGCAAGTTTG 4980 CCCATTGGTC CCATAACATG GTTTTCAAGA AAACCAAACA ACCCGTTTTG TTGATCCATA 5040 AATAGACCTC CTTAATAAAA CATAATAATT TTTACTTTCT AAAGACTAGT TTCAAATACA 5100 AATTATACTA GATCAGGATT ATAAACTAAG TGAGTTCTTT TCCAATTGGA CAAATTGTTG 5160 ATAAGCCTTA TCTGTTCGTT TATAAATTTT TTTAATTCTT CTAATGTCTA ACAAACTCAG 5220 AACTAAACCT AATAGAAGAA CTACAAAAAC AAATAAACGT GCTACTTGGT TATTTTCAAA 5280 AATCGGAAAA AGATTCTTAA ACCAACTTGT CCAAGTTAAA ACAAGTAATC CTATTGAAAT 5340 AAGCATTTGT ATTCTAACAA ACATTAGTGT TATTCCCAAC TTTTCTTTCC TATTTCCA'FA 5400 AAGTTTAAAT TGTTCAACAG TTGCTAAAAT AGAAAATACT ATGAGCATAA TGGGGAAAAT 5460 AATAATAGGC GAGGGACTAA TAAACTGACT CAAAAAGCCAA TAAATATTCC CAAAAAAGAA 5520 GAGTGCTATT GAATAACGTA GAAGAAGATA TCGATTGAAA AAAGTATTAG TTAGAGCCAT 5580 CTCTCGACGT TGTTGTTCAA TCTTTTGTCG TTCTTTTTTA TCCATATCAT TTCCTCCTTA 5640 TATAACAACA CATATTTAGT TAACTTTCTT ATAAAGAGCT AACATTTCCT TTGCTACTTC 5700 TAATAATGTC ATAGTGGTCA TTAAATGATC TTGAGCATGT ACCATGATAA TTTCAATTTT 5760 AATTTCCACT CCACTTGCGT ATTCTTGCAA GAGTTTGGTT TGTGCATGAT GCGCTTCAAG 5820

AATTATCTCA	TTTGATTGAT	TTAATTTACT	TTCTGCATCA	TCAAAACTAC	CTTCTCTCAT	5880
TTTTGCAAAT	GCTTCATGTA	TTTCTGACCT	TGCATTTCCC	GAATGCAGGA	TAATTTCAAA	5940
TGCTGCAACC	TGCAGTTCCT	CTTGATTCAT	ATAAACCTCC	TATTTTATCT	TCTCAAATAT	6000
GTTAATAAAA	TCTTCAAAGT	TATTGCAAGA	TATTAGCTGA	TTTTGCAATT	CATCATTCTC	6060
TGTCAGAGAG	ACTATCTTTT	TAGTCACAGT	TGCCAAACCT	TCGTTCCCAT	ATATTGATGG	6120
AGATAGAAGA	AATACTAGCT	GGACATGTGA	ACTTTGATTA	TCCCAGAGTA	ACGAATCTTT	6180
ACAAATTGCA	ACCGAAACCT	TTCCCTCTGT	ACCAAAGGGC	TGAATAGGAT	GCGGAACTGC	6240
AATTTTTCA	GAAAAAACAA	CTGAACTTAA	TTCTTCGCGC	TGTTTAATTC	CATAAAGTAA	6300
AGATTGTTCA	AACTCATTTG	ATTCACCAAC	AGATAAACTC	TCAACCATCT	TTTCAAGTAA	6360
ATTTACCTTG	TCTGATTCAG	TACATATTAA	AAAGTTTTCT	TTACTAAAAT	ACTGTCTAAA	6420
GCCGTTGTTT	TCAAATTTGT	TAATCTTTGA	TGATTGTACA	TAACTAGAAA	CTTGCATCTA	6480
ATCCATAGCT	TTTCTAATCA	TTTCCATCTC	ATCACTCTTA	AGAAACACAC	TAACTTTAAA	6540
AACTGGGATT	TGAAAATATA	GATTTGATAA	ATCAATAGCT	GACACTATAA	AATCTATTCC	6600
TTTAAGTTTT	TCTTGATTCA	ATTCATAGTA	GCCTATTACA	TCAACAACTT	CTACTCGCTT	6660
CCCAAACTCC	GTTTCCAAAC	GATTTCTTAA	CATTTGGGCT	GCACCAAATC	CTGTTGCACA	6720
AATAGCAAGA	ATATTAAACT	TAGTACTCTC	TTTGCTACGT	TCCATAGCAG	CTAAAAAGTG	6780
AAGACTTACA	TATGCTACTT	CATCATCTGA	TATTGTCCAC	TCCAAGAACT	TGTCCATATT	6840
TGCAAGAATT	TCTCTAGTCA	TAAAGAATAT	ATCACTATAA	TTCTGTTTAA	TTTCATCTAC	6900
CAAAGGGTTA	TTTAAGGTAA	TCCGGCTTTC	TAAACGTACT	TGTAGTGTCA	TTAGATGAGT	6960
TATCAATCCT	TCAATTAGTT	GGAAATCTGA	AGAAAGTTA	TACATATCAT	CTAATCCTAA	7020
ATTCTGAAAT	GTTTTAAATA	AAGATTTTTT	TAAAACTTCT	TCAGAAATAT	TCTTCTGATT	7080
TTTTTGACAT	TGTTGACTCT	TAGCTAACAA	ATGCAAAGTA	ATGTAGTCTA	TTTCCTGAAC	7140
TGGAAATTCC	TGATTTGTTA	CTTCTCTTAC	TTTAGAAAGA	ATTCTTTGGG	CAACCTTTCT	7200
CTCTATTGCA	TCATCAGTCA	TCTGACAGTC	TATATTTTTT	ATTTCAAATC	CGGATTTTAA	7260
ACGAATCACA	GACAATGCTA	TGTGAACTAC	TAAATTCTGT	AGTACAAAAT	CAGATAGTTT	7320
TAGGTTGGCC	TCTTGGCATT	CATCCAAAAC	AATTCTAGCA	AATTCTTCTA	ATGGAACAGT	7380
TTGATCAAAA	AAGTTAAATT	TTACATAGCA	ATGTATTGTT	TTAAAAAATT	GATTCTCTAG	7440
GAAATAATTT	ATGATAAAAC	GTCGTTTATC	ACGTTCCTCG	CCTGAGACAT	AAACTCCTTT	7500
ATTCGCCCTA	CTCTCAATGG	ACAAATTATA	CTCTGATAAC	ATCACTCGTA	TCTTTCTGAA	7560

ልጥሮልጥ <u>ር</u> ልርልጥ	ል ልጥርጥጥር <b>ል</b> ልር	GACTAACGTA	836	ርርጥ <b>አ አ አ</b> ምርአጥ	CAAAAACAAC	7620
					CACCTTTTGA	7680
		CTTCTTCCAG				7740
GCCTTGATTC	TCAAAAAATA	TTTGATACCC	TTGACCTTGT	TTTGAAATCA	ACCGGACTCC	7800
TTGAATAATC	ATTGTCTTCT	CAATTAATTT	CAGTACATTA	CGGACAGTTC	TATCTGAACA	7860
GGATAAATAT	TCTGCCAGTT	CTTTGCTTGT	AACAAAACGT	TCCTTATTTT	AAAAATTATT	7920
TTGAAGGATA	TCTTTCTCTT	TAATGTTTAA	CACATTCATT	CCCTCCTAAA	ACGTATGTTT	7980
TCATATATTG	AAGCATATTA	TACACTTAAA	TCAGTTTATA	TCAAACTCAA	AACAATTTAT	8040
СТТААССТАА	ATATTTATTG	ACATTTCATG	TGTTCATCAA	ATATTCTCAA	GAATCAAATT	8100
AGCCATTTTT	TCAATTCCCA	TTGGAATAGG	AATATAGGCT	TGAGGAGGTA	TTTGTACAAC	8160
TGGTTTTCCT	GCTTTAGAAC	CAGCCTCTTC	AAATTGCTTA	AAGTACATTT	TTGTTTGAGG	8220
ACTGACAAGA	TACAAATCAA	AAGCTGCTGC	TGCGATAGCT	TTCCCTCCTT	CAGTAGCACT	8280
AATAGCATCA	ACTACAATAT	CTTTCCCTTT	TCCTTTTAGA	AACTCTGTTG	TTTTCTGTGC	8340
CATAAGTGAT	GAAGACATTC	CTGCTGCACA	AATAATTAAA	GCTTTTGCCA	TAATATTTTC	8400
TCCTTTTCTT	AAATCCAATC	AAAGCTGTGC	TAAGTTGGCT	TATTTGTTAT	CTATTTTTAT	8460
ГАТАААТАА	AGCGTTTCCA	ATGACAATTC	CCTCATTTTC	CTAAATGATA	TGGAAAAAA	8520
TTATTTATAC	TTCAATTTAT	ААААТААААТ	TATTCCTGAG	AGTAGAAATG	AAACACTATT	8580
TGCTAAAATC	AAAGGCAAGT	CTCCTATACG	AATACCATGA	GCAAGCCACA	ATGCAATACC	8640
AATAACTTGC	ATAACATACA	TACCTAGAGC	AATAGATCCT	GTGTCCTTTG	TCTTAACTAC	8700
ACGAAAAACT	TGTGGTAAAA	ATGCAAATGT	TGTTAAAATT	GCTGCAATAC	TTCCAATCAT	8760
ATGTCACCTC	AATATGCTAA	ACAAACTGAG	AATAATCTCA	GTTTGTTTAT	ACTATTCTAC	8820
TGATTCACCG	TTAGATGAAA	TAACTTCCTT	ATACCAGCCA	AAAGATTTTT	TCGGGGAACG	8880
ATTATAACTT	CCCTTCCCAT	TATCATCTTT	ATCTACATAA	ATAAAGCCAT	AACGTTTCCG	8940
CATTTCACCG	GTACCAGCTG	AAACCAAATC	AATACATCCC	CATGGAGTAT	AACCCATTAA	9000
ATCAACACCA	TCTTCAACTA	CAGCCTTTTT	CATTTCACGA	ATATGGGCAC	CTAGATATTC	9060
ААТТСТАТАА	TCATCATGTA	CCATACCATC	TGCTGCAACT	TGATCTATAG	CTCCAAAACC	9120
ATTTTCAACA	ATAAAGAGTG	GTAAGTGATA	GTGGTCTGTA	AACCAATTTA	ACGCATAACG	9180
CAAACCTTCT	GGATCAATTT	GCCACTCCCA	TTCAGAAGCC	TTAACATAAT	TATTTTTCAC	9240
PAAATCTTCT	GTTTCAAGAT	ААТСААААТА	AGGATTATTT	TCACGATGAG	AGTCGATAGC	9300
AAAGGACATA	TAGTAACTGA	AACCAATGTA	ATCTACAGTC	CCACCAAGTA	AATCTTCTTT	9360

ATCCTGGGCA	GTAAAATCAA	CTGAAATACC	TTTTCGTTCC	CAATACTTGA	AAATATGCTC	9420
AGGATATTTA	CCTAAAACAT	GCACATCAGC	AAAATAATAA	CGCTTCTGCA	TAGCTTTCAT	9480
TGCCATTAAG	ATATCCTTAG	GATTGCAAGT	AACTGGATAA	ATTGGACACA	TCGCAATCAT	9540
ACAACCTATT	TGAAAATCTG	GATTAATCTC	ATGACCAATT	TTTACAGCTC	GTGCAGAAGC	9600
AACTAATTCG	TAATGTGCTG	CTTGATACAT	AATTGCTTCT	CTATTATCAC	CTTCCTCATA	9660
TACAATACCT	GAGTTAGTAA	ATGGTGCAAA	ATCTTCCTGA	TAATTCGCTT	GATTATTGAT	9720
TTCATTGAAA	GTCATCCAAT	ATTTAACCTT	ATCTTTGTAA	CGTTTAAATA	CGACTTCTGC	9780
AAAACGAGCA	AAGAAATCAA	TCAATTTCCT	ATTTTTCCAA	CCACCATATT	CGGTCACTAA	9840
GTGATAAGGC	ATTTCAAAAT	GAGATAGAGT	GATGACAGGT	TCAATACCAT	TCTTTAAGCA	9900
TTCATCAAAA	AGATTATCAT	AAAACTGTAA	TCCTTCTTCA	TTCGGCTCTA	ACTCATCACC	9960
TTTTGGAAAG	ATACGTGTCC	ATGCAATAGA	GGTACGGAAG	CACTTGAATC	CCATTTCAGC	10020
AAAAAGTGCT	ATATCTTCTT	TATAACGGTG	ATAAAAATCT	ATCGCCTCAT	GATTTGGATA	10080
ATATTTACCC	TCTAAAACTC	CCAAAGTAAT	TTCACGAGCT	ACTCCATGAC	GACCAGCAGT	10140
CATAACATCA	GCAACACTAA	TTCCCTTGCC	ACCTTCTTGC	CATCCACCTT	CAAGTTGATG	10200
AGCAGCAACA	GCACCACCCC	ATAAAAATCC	ATCTTTAAAA	GTAGTCATCT	TTTTTCCTCC	10260
TGACTTTGAT	ACTCTTATTA	TAAACCTTAA	ACCAAAAGAT	GAAAACGCAT	TCTTTTTCCT	10320
TATTGTTAAG	GAAAGAAGTA	ATTTTTAATG	GAAATAGAAC	AATATCTTCT	TGTATTCTCG	10380
TAATGATATC	TTTACGATTT	TCAATACTTT	CAAACTACAA	AAACTCTCAC	AATAATTCTA	10440
ATTCCCTGTG	TCTATAAACG	ACTTATCGCT	TTCTGGĊATC	CCAGAATCAT	CTTCTATATA	10500
ACGTTCAACT	TGCATCTGCA	AGTGATATTT	TTTTCTTAAA	TCTAAGATTT	TCTGCATTGT	10560
CTTTGATTGA	TAATGTTTAT	CTAAAGTTTC	TTGATTTATC	CACTGATCAA	TAAGGAGAAT	10620
AGTTCCCTCT	TTTTCAATTG	GTAAAAAATA	TTCGTATTTC	AAGTTACCTT	TTTGATTTCT	10680
AATTTCTTTA	ACAAGGCCAC	TATCAAGCAT	TTCTCTTGCA	AACTTTATTG	CACTATCTCC	10740
ATCACCTTTA	TAATATACAT	GAATAGTCAA	TGTCATCTTA	TATCCTCCAA	AATCATCCTT	10800
CAATTTTAAA	AAAACAAGTT	TAGATGAGGA	TCTAAACTTG	TTTTTTATGA	ACTAATTATC	10860
TAACGTTTCG	CCATTACTTT	CAATCACTTC	TTTATACCAA	TAAAATGATT	TTTTCTTATA	10920
GCGATTTATA	GTCAATTGAA	ACAAGAGCAG	GACAAAAGAG	CCTCATAAAA	GGTATTGCAA	10980
CTTGGTAATA	CCTTTTTGAG	GTGCTTTTTG	ATATGAGCCC	ATGTTTTCTC	AATAGGATTG	11040
TACTCAGGTG	AGTAGGGAGG	AAGAGGTAAA	AGTTTATACC	CAAACTCTTC	ACACAAGAGT	11100

			838			
TCTAGCTTCC	CCATTCTATG	GAATCTTGCA	TTATCCATAA	TAATAACCGA	TGGTGTGGTT	11160
AATGTTGGTA	AGAGAAACTT	CTGAAACCAA	GCTTCAAAAA	AGTCGCTCGT	CATCGTCTCT	11220
						1120
TCGTAAGTCA	TTGGAGCGAT	TAACTCACCA	${\tt TTTGTTAGAC}$	CTGCAACCAA	AGAAATCCTC	11280
TGATATCTTC	TTCCAGATAC	TTT				11303
						11303

# (2) INFORMATION FOR SEQ ID NO: 116:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3112 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCTTAGATTT	CCACTTGCCA	GAGGAATTGA	TTGCCCAAAC	GCCCCTTGAA	AAACGTGATG	60
CCTCCAAACT	CCTCATCGTC	AACCGTGAGA	CAGGAGAAAT	GCAAGATAAA	CATTTCCACT	120
CTATTATTGA	TATGCTGGAA	CCTGGTGATG	CCCTTGTCAT	GAACGACACC	CGAGTTCTCC	180
CTGCCCGCCT	CTATGGTCAA	AAAGTGGAGA	CAGGAGGTCA	TGTGGAACTT	CTCCTCCTTA	240
AGAACACTAG	TGGAGACGAG	TGGGAAGTTC	TGGCTAAACC	TGCCAAACGC	CTCAAGGTCG	300
GTACTCGTAT	CAGCTTTGGT	GATGGCCGCC	TCAGCGCTGT	CGTTACAGAA	GAATTGACCC	360
ACGGGGGACG	CATTGTCCGC	TTTGAATACC	AAGGAATTTT	CCTAGAAGTC	TTGGAAAGTC	420
TGGGAGAAAT	GCCTCTGCCA	CCTTATATCC	ACGAAAAATT	AGATGACCGT	GAACGTTATC	480
AAACCGTCTA	CGCCAAGGAA	AGTGGCTCTG	CTGCAGCACC	GACTGCTGGT	CTTCACTTCA	540
CCAAAGAACT	GCTGGCAGAA	ATCCAAGCTA	AGGGTGTTCA	TCTAGTCTAT	CTGACTCTCC	600
ATGTCGGACT	CGGAACCTTT	AGACCTGTTT	CTGTGGATAA	TCTGGACGAA	CACGAAATGC	660
ACTCAGAGTT	CTATCAACTT	TCTGAGGAAG	CTGCTGCCAC	CCTTCGCTCT	GTCAAAAAA	720
ATGGTGGTCG	TGTCATCGCT	GTCGGAACCA	CTTCTATCCG	CACCTTGGAA	ACTATTGGTT	<b>7</b> 80
CCAAGTTTGA	TGGGCAAATC	CAAGCAGATT	CTGGTTGGAC	CAATATCTTT	ATCAAACCTG	840
GGTATGAGTG	GAAGGTCGTG	GATGCCTTCT	CAACCAACTT	CCACCTGCCA	AAATCAACTC	900
TGGTCATGTT	GGTTTCTGCC	TTTGCAGGCC	GTGAATTAGT	CTTAGATGCC	TACCACCATT	960
CCATCCAAGA	ACACTACCGC	TTCTTCAGTT	TTGGTGACGC	CATGTTTATT	TATTGAGAAA	1020
GAATTTCTCT	AAATCTTCTA	ATACCAATAA	ATCGCTAAGA	TATTATTTCA	AAGAACATCT	1080
ACAATTGAAA	CTCTAGCTAG	CTGTAGAAGA	GGCCTAGTAC	ATTGAAATTA	AAATGCTTCC	1140
CCCTAGCTTC	GAAAATATTG	CCATAGATTG	CGTTGACTCT	CCAAATTGAT	TCATCTATAT	1200

TTTATTTCAG	CTTCCTATAC	TTTCTTCGCT	GTTTGTAAAT	CAAAATGCAA	GACACATGAG	1260
TAGCACCATA	TTTGTTACTC	TTATCTGTCC	TCTCAAGAGA	CTATTATGAG	TTATTTCAGA	1320
ATCATTCACT	ACTTTGACCC	TGACTCTCCT	TAGTCTCAAA	ATCAAAGACT	TATACTCTTC	1380
AAAAATCTCT	TCAAACCGCG	TCAACGTCAC	CTTGGATTAT	ATATGTGatC	TGaCTTCGTC	1440
AGTTCTATCT	ACAACCTCAA	AGCAGTACTT	TGAGCAACCT	GCGACTAGTT	TTCTAGTTTG	1500
CTCTTTGATT	TTCATTGAGT	ATTAAACAAA	AAGTGAACAA	ATCTGAATTC	TAATGTACAG	1560
AAGACTAGGC	TTGTTCACTT	TTTTATAGTC	GCTATAAGAT	GACCTTATCT	ATAGCTTTTT	1620
ATATATAATT	ATATATTCAG	ACATACTATT	ATCAATTTTG	TCGCAGGGAG	GAATCTGTTA	1680
ACGCACCCAT	TCACCATTAT	CATTGACTCT	ATAGCCATCT	ATACTTGTAT	TGACCGCTAA	1740
CTCACCCGAT	GTATTTACAT	AATACCATTT	ACCACCAACT	TGGAACCATT	GATTGACTTT	1800
CATAGAACCG	TTGCTGTTGA	GGTAGTACCA	TGAACTATTA	ACTTGTACCC	AACCTGTTGC	1860
CATGGAACCA	TCAGTATTAT	AAAAATACCA	CATACCATTT	TCTTGTTTCC	AGTCTGTTGT	1920
TGGAGCAACT	GCTTTAGCTG	GTTCTACTGC	TACATCTGTT	CCTTGGTTAG	ATGTAACAGA	1980
FACAGGATAC	GAAGGAATAG	ATGATTGCTC	AGGAACAACA	ACTTTTTCAG	GTTCTCTCGT	2040
CCCTCTCCTT	ATACGTCTTT	TTACCATCTC	TTTAGTAATT	TGACGAGAAG	TAGTTTCTTC	2100
AATTGTTCCA	TCACGTTCAT	CTACAGTATA	GATTGTAGTA	AGAGTAATTT	ACCAATTTCT	2160
CCTACTTCTT	CTACTTCTTG	ACTTTTATCA	AGAGTTGGGC	CATCGAGATA	TTCTGTTTCG	2220
ATTGGAATTT	CTTGGACAAG	AACTTGGGGC	TTGGTTCTTT	TTTTAACAAC	TCTTGTTTGA	2280
GAGTCTTTTT	TTTGACTTAA	AGTACTCTCA	GTTACTTGTC	CACTCTTTCC	ATCTACATTA	2340
PAAGTTATCG	TTGTAACTGT	TTTCCCATTC	TTTCCTAGAG	TAATCTCTTG	CTCCTGTCCT	2400
GCAGAAAGGT	CATTGTCTGC	TTCATATTTA	GTAGCAAATG	GAACAAGAAC	TTCTTCAACC	2460
TTGCTTTTAG	CTGGAACTTT	GATAACTGTA	TCCGTGGCTT	CTTTTCTATC	AACAGTAACC	2520
FGTTCGGTAA	CATAACCAGT	CTCTGGATTA	ACATCGTAGG	TCCTTGTCGT	AGTTACATAG	2580
CCATCCTCTC	CATCAATTGT	AACAGGATTT	TCACTACGGT	CTTTTGTTTC	ATCTTTTTCA	2640
PAACGAATTC	GCGTACTTGA	AATTTTCTTG	GTTACTACCT	TAGGTTTAGT	CGCTACTTTT	2700
АСААТААТАТ	CCCCATTGTC	AGCGTCATCA	TACTCTATTC	CCTCTTCTTT	ATCTCTAGTA	2760
PCATCTCTGA	CATATTGAAT	CCCATCAGCA	GCATGAACAA	AACTTGTATT	CAGATTCCTC	2820
CTAAAAATAA	AGTTAGCCCG	ATTACCGCAG	ААССАААААТ	CTTTCCGAGT	TTACGTATTG	2880
CATAGCGCTT	ATTAGTATTA	GATTTTGCCA	TTACATCCTA	CTTCTAGTAT	AGCATCTTTT	2940

CTATCAAACG TI	ГАААСААТА	TACGTTATAT	840 ATAAAATAGA	CTTAGAATGA	TATATTGATT	3000		
ATTGAACTAA CA	ACTTTAACT	ATATCGTAAT	CAATCTCATA	TATAAAGGAT	TGCAGACATC	3060		
TTATCTAAAT AC	CATGCGAAT	ATATTTAGAT	ACAAACATTC	CAACTTGATA	AT	3112		
(3) TWEENWEST OF THE STATE OF TH								

#### (2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4327 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCAAAAATC TCTTCAAACC	ACGTCAGCTT	CGCCTTGCCG	TAGTATGGTT	ACTGACTTCG	60
TCAGTTCTAT CCACAACCTC	AAAACAGTGT	TTTGAGCATC	ATGCgGCTAG	CTTCTTAGTT	120
TGCTCTTTGA TTTTCATTGA	GTATAAAAAC	AGATGAGTTT	CTGTTTTCTT	TTTATGGACT	180
ATAAATGTTC AGCTGAAACT	ACTTTCAAGG	ACATTATTAT	ATAAAAGAAT	TTTTTGAAAC	240
TAAAATCTAC TATATTACAC '	TATATTGAAA	GCGTTTTAAA	AATGAGGTAT	ATTAAATTTA	300
CTAACGCTTA TAAAAAGTGA '	TAGAATCTAT	TTTTATGTAT	ATTTAAAGAT	AGATTGCTGT	360
AAAAATAGTA GTAGCTATGC	GAAATAACAG	ATAGAGAGAA	GGGATTGAAG	CTTAGAAAAG	420
GGGAATAATA TGATATTTAA	GGCATTCAAG	ACAAAAAAGC	AGAGAAAAAG	ACAAGTTGAA	480
CTACTTTGA CAGTTTTTTT	CGACAGTTTT	CTGATTGATT	TATTTCTTCA	CTTATTTGGG	540
ATTGTCCCCT TTAAGCTGGA	TAAGATTCTG	ATTGTGAGCT	TGATTATATT	TCCCATTATT	600
TCTACAAGTA TTTATGCTTA	TGAAAAGCTA	TTTGAAAAAG	TGTTCGATAA	GGATTGAGCA	660
GGAAGTATGG TGTAAATAGC	ATAGGCTGAT	GTCCATCATT	TGCTTATAAA	GAGATATTTT	720
AGTTTAATTG CAGCGGTGTC	CTGGTAGATA	AACTAGATTG	GCAGGAGTCT	GATTGGAGAA	780
AGGAGAGGGG AAAATTGGCA	CCAATTTGAG	ATAGTTTGTT	TAGTTCATTT	TTGTCATTTA	840
AATGAACTGT AGTAAAAGAA	AGTTAATAAA	AGACAAACTA	AGTGCATTTT	CTGGAGTAAA	900
TGTCTTATTT CAGAAATCGG	GATATAGATA	TAGAGAGGAT	CAGTATGAAT	CGGAGTGTTC	960
AAGAACGTAA GTGTCGTTAT	AGCATTAGGA	AACTATCGGT	AGGAGCGGTT	TCTATGATTG	1020
TAGGAGCAGT GGTATTTGGA	ACGTCTCCTG	TTTTAGCTCA	AGAAGGGGCA	AGTGAGCAAC	1080
CTCTGGCAAA TGAAACTCAA	CTTTCGGGGG	AGAGCTCAAC	CCTAACTGAT	ACAGAAAAGA	1140
GCCAGCCTTC TTCAGAGACT (	GAACTTTCTG	GCAATAAGCA	AGAACAAGAA	AGGAAAGATA	1200
AGCAAGAAGA AAAAATTCCA	AGAGATTACT	ATGCACGAGA	TTTGGAAAAT	GTCGAAACAG	1260

TGATAGAAAA	AGAAGATGTT	GAAACCAATG	CTTCAAATGG	TCAGAGAGTT	GATTTATCAA	1320
GTGAACTAGA	TAAACTAAAG	AAACTTGAAA	ACGCAACAGT	TCACATGGAG	TTTAAGCCAG	1380
ATGCCAAGGC	CCCAGCATTC	TATAATCTCT	TTTCTGTGTC	AAGTGCTACT	AAAAAAGATG	1440
AGTACTTCAC	TATGGCAGTT	TACAATAATA	CTGCTACTCT	AGAGGGGCGT	GGTTCGGATG	1500
GGAAACAGTT	TTACAATAAT	TACAACGATG	CACCCTTAAA	AGTTAAACCA	GGTCAGTGGA	1560
ATTCTGTGAC	TTTCACAGTT	GAAAAACCGA	CAGCAGAACT	ACCTAAAGGC	CGAGTGCGCC	1620
TCTACGTAAA	CGGGGTATTA	TCTCGAACAA	GTCTGAGATC	TGGCAATTTC	ATTAAAGATA	1680
TGCCAGATGT	AACGCATGTG	CAAATCGGAG	CAACCAAGCG	TGCCAACAAT	ACGGTTTGGG	1740
GGTCAAATCT	ACAGATTCGG	AATCTCACTG	TGTATAATCG	TGCTTTAACA	CCAGAAGAGG	1800
TACAAAAACG	TAGTCAACTT	TTTAAACGCT	CAGATTTAGA	АААААААСТА	CCTGAAGGAG	1860
CGGCTTTAAC	AGAGAAAACG	GACATATTCG	AAAGCGGGCG	TAACGGTAAC	CCAAATAAAG	1920
ATGGAATCAA	GAGTTATCGT	ATTCCAGCAC	TTCTCAAGAC	AGATAAAGGA	ACTTTGATCG	1980
CAGGTGCAGA	TGAACGCCGT	CTCCATTCGA	GTGACTGGGG	TGATATCGGT	ATGGTCATCA	2040
GACGTAGTGA	AGATAATGGT	AAAACTTGGG	GTGACCGAGT	AACCATTACC	AACTTACGTG	2100
ACAATCCAAA	AGCTTCTGAC	CCATCGATCG	GTTCACCAGT	GAATATCGAT	ATGGTGTTGG	2160
TTCAAGATCC	TGAAACCAAA	CGAATCTTTT	CTATCTATGA	CATGTTCCCA	GAAGGGAAGG	2220
GAATCTTTGG	AATGTCTTCA	CAAAAAGAAG	AAGCCTACAA	AAAAATCGAT	GGAAAAACCT	2280
ATCAAATCCT	CTACCGTGAA	GGAGAAAAGG	GAGCTTATAC	CATTCGAGAA	AATGGTACTG	2340
TCTATACACC	AGATGGTAAG	GCGACAGACT	ATCGCGTTGT	TGTAGATCCT	GTTAAACCAG	2400
CCTATAGCGA	CAAGGGTGAT	CTATACAAGG	GTGACCAATT	ACTAGGAAAT	ATCTACTTCA	2460
CAACAAACAA	AACTTCTCCA	TTTAGAATTG	CCAAGGATAG	CTATCTATGG	ATGTCCTACA	2520
GTGATGACGA	CGGGAAGACA	TGGTCAGCTC	CTCAAGATAT	TACTCCGATG	GTCAAAGCCG	2580
ATTGGATGAA	ATTCTTGGGT	GTAGGTCCTG	GAACAGGAAT	TGTACTTCGG	AATGGGCCTC	2640
ACAAGGGACG	GATTTTGATA	CCGGTTTATA	CGACTAATAA	TGTATCTCAC	TTAGATGGCT	2700
CGCAATCTTC	TCGTGTCATC	TATTCAGATG	ATCATGGAAA	AACTTGGCAT	GCTGGAGAAG	2760
CGGTCAACGA	TAACCGTCAG	GTAGACGGTC	AAAAGATCCA	CTCTTCTACG	ATGAACAATA	2820
GACGTGCGCA	AAATACAGAA	TCAACGGTGG	TACAACTAAA	CAATGGAGAT	GTTAAACTCT	2880
TTATGCGTGG	TTTGACTGGA	GATCTTCAGG	TTGCTACAAG	TAAAGACGGA	GGAGTGACTT	2940
GGGAGAAGGA	TATCAAACGT	TATCCACAGG	TTĄAAGATGT	CTATGTTCAA	ATGTCTGCTA	3000

TCCATACGAT	GCACGAAGGA	AAAGAATACA	842 TCATCCTCAG	TAATGCAGGT	GGACCGAAAC	3060
GTGAAAATGG	GATGGTCCAC	TTGGCACGTG	TCGAAGAAAA	TGGTGAGTTG	ACTTGGCTCA	3120
AACACAATCC	AATTCAAAAA	GGAGAGTTTG	CCTATAATTC	GCTCCAAGAA	TTAGGAAATG	3180
GGGAGTATGG	CATCTTGTAT	GAACATACTG	AAAAAGGACA	AAATGCCTAT	ACCCTATCAT	3240
TTAGAAAATT	TAATTGGGAA	TTTTTGAGCA	AAAATCTGAT	TTCTCCTACC	GAAGCGAACT	3300
AGAGAGATGG	GCAAAGGAGA	GATGGGCAAA	GGAGTTATTG	GCTTGGAGTT	CGACTCAGAA	3360
GTATTGGTCA	ACAAGGCTCC	AACCCTTCAA	TTGGCAAATG	GTAAAACAGC	GACTTTCCTA	3420
ACCCAGTATG	ATAGCAAGAC	CTTGTTGTTT	GCAGTAGATA	AGGAAGATAT	CGGACAGGAA	3480
ATTATTGGTA	TAGCTAAAGG	AAGCATCGAA	AGTATGCATA	ATCTTCCTGT	AAATCTAGCA	3540
GGTGCCAGAG	TTCCTGGCGG	AGTAAATGGT	AGCAAAGCAG	CGGTGCATGA	AGTTCCAGAA	3600
TTTACAGGGG	GAGTTAATGG	TACAGAGCCA	GCTGTTCATG	AAATCGCAGA	GTATAAGGGA	3660
TCTGATTCGC	TTGTAACTCT	TACTACAAAA	AAAGATTATA	CTTACAAAGC	TCCTCTTGCT	3720
CAGCAGGCAC	TTCCTGAAAC	AGGAAACAAG	GAGAGTGACC	TCCTAGCTTC	ACTAGGACTA	3780
ACAGCTTTCT	TCCTTGGTCT	GTTTACGCTA	GGGAAAAAGA	GAGAACAATA	AGAGAAGAAT	3840
ТСТАААСАТТ	TGATTTTGTA	AAAATGGCTC	TTTGTCAACT	GTAGTGGGTT	GAAGTCAGCT	3900
AAGCTCGAGA	AAGGACAAAT	TTTGTCCTTT	CTTTTTTGAT	ATTCAGAGCG	ATAAAAATCC	3960
GTTTTTTGAA	GTTTTCAAAG	TTCCGAAAAC	CAAAGGCATT	GCGCTTGATA	AGTTTGATGA	4020
GATTATTGGT	CGCTTCCAAT	TTGGCGTTAG	AATAGTGTAG	TTGAAGGGCG	TTGACGATTT	4080
TCTCTTTGTC	CTTTAGAAAG	GTTTTAAAGA	CAGTCTGAAA	AAGAGGATGA	ACCTGCTTTA	4140
GATTGTCCTC	AATGAGTCCG	AAAAATTTCT	CCGGTTCCTT	ATTCTGAAAG	TGAAACAGCA	4200
	GAGCTGATAG					4260
	ATTGGTTAAA	TGCATACGAA	AAGTAGGGCG	ATAAAAATGT	TTATCGCTGA	4320
GTTTACG						4327

# (2) INFORMATION FOR SEQ ID NO: 118:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 3521 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CTCTGGCCCT GCCACTCCAA CGTTTTGTCA GGGTGCTTTT TTCATAAAGG AGTTCTTATG

TTAGATATCA	AACGTATTCG	TACAGATTTT	GAAGCTGTCG	CAGAAAAATT	AGCTACACGT	120
GGTGTAGATG	CTGCTGTCTT	GAATGAAATG	AAAGAAATCG	ATGCTAAACG	TCGTAACATC	180
TTGGTCAAGG	TTGAAACTCT	CAAAGCAGAA	CGTAACACAG	TTTCTGCTGA	GATTGCCCAA	240
GCTAAGCGCA	ACAAGGAAAA	TACAGATGAC	AAGATTGCTG	CCATGCAAAA	TCTATCTGCT	300
GAGGTTAAAG	CCTTGGATGC	TGAATTGGCA	GAAATCGATG	CTAAATTGAC	AGAATTTACA	360
ACGACTCTTC	CAAATATCCC	AGCTGACAGC	GTTCCTGTTG	GGGCTGACGA	AGACGACAAT	420
GTGGAAGTTC	GCCGTTGGGG	TACTCCACGC	GAGTTTGACT	TCGAACCTAA	AGCTCACTGG	480
GATCTCGGTG	AAGACCTTGG	TATCCTTGAC	TGGGAACGCG	GTGGTAAGGT	AACAGGCGCT	540
CGCTTCCTCT	TCTATAAAGG	CCTCGGTGCT	CGTTTGGAAC	GTGCTATCTA	CAACTTTATG	600
TTGGATGAAC	ATGGAAAAGA	AGGCTATACT	GAAGTCATCA	CACCTTACAT	AGTCAACCAT	660
GATTCTATGT	TTGGTACTGG	TCAGTATCCA	AAATTTAAGG	AAGATACTTT	TGAACTCAGC	720
GATACCAACT	TTGTCTTGAT	TCCAACTGCT	GAAGTTCCTC	TGACAAACTA	CTACCGTGAT	780
GAAATCTTAG	ACGGCAAAGA	TCTTCCAATC	TACTTCACTG	CCATGAGTCC	GTCATTCCGT	840
TCTGAGGCTG	GTTCTGCCGG	TCGTGATACG	CGTGGCTTGA	TCCGTTTGCA	CCAATTCCAC	900
AAGGTTGAAA	TGGTCAAATT	TGCCAAACCA	GAAGAATCTT	ACGAAGAATT	GGAAAAAATG	960
ACAGCCAACG	CTGAAAACAT	TCTTCAAAAA	CTCAACCTTC	CATACCGTGT	CGTTGCTCTC	1020
TCTACTGGAG	ATATGGGCTT	CTCAGCTGCG	AAGACTTACG	ACTTGGAAGT	GTGGATTCCA	1080
GCACAAAACA	ATTACCGTGA	AATCTCAAGC	TGTTCAAACA	CAGAAGATTT	CCAAGCCCGT	1140
CGTGCCCAAA	TCCGTTACCG	TGATGAAGCA	GATGGCAAGG	TGAAACTCCT	TCATACCTTG	1200
AACGGTTCTG	GACTTGCAGT	TGGACGTACA	GTGGCTGCAA	TTCTTGAAAA	TTACCAAAAT	1260
GAAGATGGTT	CTGTGACCAT	CCCAGAAGCA	CTTCGTCCAT	ACATGGGTGG	AGCTGAAGTC	1320
ATCAAACCAT	AAAAAATAAG	GTTTAGCTAT	TTCTAGCTAG	ACCTTTTTTC	GTAACCAAAT	1380
CAGATAAGCA	CCTAGTACAA	AGAATAAAAT	AGTTAGGCAT	ATAATGGTTT	CAGCCAATAC	1440
CAGGTAATCC	AGAAATGGAA	GTTTCAAAAT	TCCCTGAGCC	ATCTTGAGCG	AGGTCGCTGT	1500
GATAATGGTT	GGGAAGGTGA	GGGCTGAGAA	GGCTGGTTGA	AAACCTTGTT	TTAAAATGTT	1560
GGGCAGACGA	GTTAAAACAA	AGAAAAGAA	GGATTGAGAA	GCCAAAATCA	TGACAATCAA	1620
GACCCAAGTC	GGCAGGCTGG	TTCCTCCTAC	TCGAACTAGA	GAAGCCAAGA	GTAGAGAGAA	1680
AGGAGCACAG	TAGATTCCTT	CTTGTCCAAG	CAAGGCTAGT	GGGAGTGGAT	GTTTCTTTAA	1740
ATCGCTATAA	ATAAGGGGAT	AGAGATAGAA	GGTCAAGAGA	АААССААААС	TCAAGGTCGC	1800

			844			
ATAGGCAATT	TCGATAATAC	CTACCAGAGG	ATAGGTCAAG	GCAGCCACTG	CTATCCCCAC	1860
TAGAGAACC	GTCCAGCTTG	GAGTGGCATG	AACCCTCCGC	CCTGGACAAG	CAAACTTGAT	1920
GTAAAACCA	GCAATCAAGG	TCAAATCCAA	GAGAAATGAA	AACCACCAAA	TCCCTTGTGC	1980
PACCAAAGGA	AGATAAGAGA	ATACGCGAAA	GACATAGGTC	GATAAAATCA	TCCCAGCCAT	2040
AGGAAAGGTT	GCCATTCCTG	ACAAAAGAGG	GGGCTTGGTC	AATTCTTGCT	TGGTTTCTTT	2100
CCAATTAAAG	AGATGCAGAA	TTAGAAAGTA	AATCCATAAA	ACCAAACCAA	TCAGACTAAA	2160
AGATGGGAT	AGAACCGGCA	ACGTATCTAA	AATAAGATTT	CCAGCTCCTG	CCAAACCTAG	2220
CAAACAACCT	GAAAATACTA	AGGGGAGTTT	TTTCATCCTA	ACCTCCAATA	ATCATGTTAG	2280
TTTCAGTATA	ACATAAAAGC	GCTTAAATGA	GGATTTAAAA	AAACGAGTCC	GCTTATTTCA	2340
SACTTCATTT	TACTCAGATA	TGAATTAGGC	ATAAGGTTGC	AATTCTGGAT	TAATTGGTGT	2400
ATTAGCTAAG	TTGTTGGCAT	AGTTACAGAG	GATTGCTAGG	CTGACACCAA	AAACCACATC	2460
CAAGGCATTT	TGTTGAGTGT	AGCCAGCTTC	TAAAAACTCA	GACAAGGCTT	CATCTCCTAC	2520
CGACCCTTG	GTATTGATAA	CTGCCAAGGT	AAACTTAGCT	AGGGTATCCA	ATTTAGGATC	2580
GTTTCAATT	GGAGTACGAT	TGCGAAGAGC	TTGAATCAAG	TCATCATTCA	TCTGGATTTG	2640
TTGATGGAA	AAGGCTGTGT	GACCTGCGAC	ACAGAAGGCA	CAACCATTGG	TCACGGCTGC	2700
GTGATTTGC	ACCACTTCAC	GCTCAACGGG	TGTCAGGCTG	TTGCGACGGT	GGATAGATGA	2760
SACAATTTGG	TAGGCTTCTA	AAACAGTCGG	GGCATTGGCC	AAGAGACCGA	TTAGGTTGGG	2820
ATATAGCCA	TTGTTGTCTT	TTTCTACTGT	TTCAAGAATT	TCTTTCACTT	CTGCTGGTGC	2880
GACTCTACT	GTATGGATAG	TAAATGTTGT	CATAAGATAC	CTCTTTTCTT	ATTATTGACA	2940
TATTATAAT	TGGAAAATCT	TATAAAATCC	TGATTCCTAA	GTTTATCTAA	GATAAAGCTT	3000
PATTCTCTCA	TAAGATTTTC	GTTGTTATAT	TAGTTTATCA	CACTTCCAAT	CACTTGTATA	3060
ATTATATAT	TATATCAGGC	TGATAAAAAT	TATTTATAGG	СААААААТС	ACACGAGCTG	3120
GTGATTCCA	TTATTTGTCA	AAATACTTTT	TAGTTTCAGC	AATAACGACT	GGCGACAAGA	3180
CAAGAGGGC	AATCAAGTTT	GGCAGAGCCA	TCAAGGCGTT	AACGATATCT	GCGATAATCC	3240
GACCATATC	CAACTCGATA	AATCCTCCTA	ACAAGACCAT	GAGCACAAAA	ACCACACGGT	3300
GAGCCAGAT	AAAGCGAACC	CCAAAGAGGA	ACTCAAAACA	GCGTTCTCCG	TAATAGTTCC	3360
ACCTAGAAT	CGTTGTAAAG	GCAAAAAGTA	CAAGGAAGAT	GGTCAAGAGA	GCAGGCCCAA	3420
GTGTGAAAA	GTTTGTTGAG	AAAGCTGACT	GAGTCAAGGC	AACCCCATTC	AAGTCACCGC	3480
CCAAACTCC	AGTTACCAAG	ATGGTCAAAC	CAGTTAGAGT	A		3521

(2) INFORMATION FOR SEQ ID NO: 119:

845

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1968 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

AACCTGGGCA AGCAAGCTAA	AAGCAATGGG	ACCTGGAATC	CTAATGGCAA	CTGCCGCTGT	60
TGGAGGTTCC CACATTGTAT	CCTCAACTCA	AGCTGGCGGT	TCTTACGGTT	GGTCTCTACT	120
TCTCTTGGTC ATCTTAGCCA	ATGTCTTTAA	ATATCCATTT	TTCCGTTTTG	GTGCTGAATA	180
CACAGCTGAT ACTGGAAAGA	CTTTGGTTGA	AGGTTATGCC	GAAAAAGGAA	AACTCTATCT	240
CTGGATTTTC TTTATCCTCA	ATGTCTTTTC	GGCTATGGTC	AACACGGCTG	GTGTTGCCAT	300
TCTGTGCTCA GCTATCATCG	CCAGTGCCTT	CCCAATGATT	GGACTTAGCA	TTACTCAGTG	360
GTCCCTCATT CTCGTTGCAA	TCATTTGGGC	TATGCTACTC	TTTGGAGGCT	ACAAACTTTT	420
AGACGGCATG GTCAAATGGA	TTATGTCTGC	CTTAACCATT	GCGACTGTTC	TTGCAGTTAT	480
CATTGCGGCG GTCAAGCATC	CAGAATACAG	TTCTGATTTT	GTCGAGAAGA	CACCTTGGCA	540
AATGGCAGCT CTGCCCTTCA	TCGTCTCCCT	CCTAGGATGG	ATGCCGGCTC	CTATTGAAAT	600
TTCAGCCATC AATTCACTTT	GGTCAGCTGA	AAAGAGAAAG	ACCGTCAACT	TTAACACAGA	660
AGACGCTCTG TTTGACTTTA	ACACTGGTTA	TATTGGAACA	GCTATCCTAG	CCGTCTTCTT	720
TGTGGCACTG GGAGCACTGA	TTCAGTATCC	TACAGGGCAG	GCGGTTGAAG	CTGCTTCAGC	780
CAAATACATC TCTCAATTCG	TGGGCATGTA	TGCCTCTGTT	CTTGGCGAAT	GGTCCCGTTA	840
CTTGATTACC TTTATTGCCT	TCCTCTGTAT	CTTTGGAACA	GTTATAACTG	TTATCGATGG	900
CTATTCTCGC GTTAATCAGG	AATCTCTCCG	ACTGCTAATC	AGTCAAAAAG	AGGACAATCG	960
TAAATCTTTG AACATCTGGA	TGACCATCAC	TGCTATCATC	GGTATCGTCA	TTATCAAGTT	1020
CTTCGCTGGT CAGGTTTCAA	CCATGCTCCG	CTTTGCCATG	ATTGGCTCTT	TCCTGACAAC	1080
ACCTTTCTTT GCTCTTTTGA	ATTACGCCTT	GGTAACGCGT	GAAAACAAAA	ATCTTCCTTC	1140
TTGGCTCAAA CACCTTGCCA	TTGCGGGATT	GATTTTCCTC	TTTGCTTCGC	CATCTTCTTT	1200
ATCTACGCAC TCGCAATCGG	AAAAGCAGGG	TAAGGGACAA	GCGCGAGATG	AAGATAAGGT	1260
TTCATTTCAA GAGAAAATTC	AGCAAATATT	TCTATGATAA	AAAGCATAAG	AACAAGGTTT	1320
TGAAGACCTG AACTTATGCT	TTTTTACGTT	CTTAAAGACT	GTTTATACTC	AAAAAACAGT	1380
TGAACAACTT CAACCACCTC	TTATAAGAAC	TTTATACTAT	TCGAGAATCT	CTTCAAACCA	1440

			846			
CGTCAGCTCT	ATCTGCAACC	TCAAAGCTGT	GCTTTGAGCA	ACCTGCGACT	AGCTTCCTAG	1500
TTTGCTCTTT	GATTTTCATT	GAGTATTAAT	TCTCCTTTTC	CAACTCATAC	AAATCTGCGA	1560
TAATAGCTGC	GACATGTTTG	ATATCTTCCA	GCATGCCTCG	CATTTCAAAG	TCAGCCAATA	1620
CAGGGAAGCC	AAAGCGTTGA	CTGTATTGCT	TGGCTGTTAG	GCAGTATTGG	TTATTAAAGT	1680
TACGATTTCC	TGACCCAACC	ACACCAAAAC	ACTTACTAGC	ATTGTTACCA	TAGGCAATAA	1740
AATCTCCCAC	CGGTGTCGTC	AAAATCTCAA	CATCTCCGTT	ATCCACGCCA	TTCCCACCTT	1800
CGAGATAGGT	CGGCAAAAAA	GCGACATAGG	GATGGTCCAT	TTCATAGAAA	TTTTTGCCTT	1860
CCTTGACCAA	ATCCTTGATA	TGAATCTTTT	GAACCTCAAT	CCCTTTGTAC	TGGGACAAGA	1920
GATAGTCTTT	CAAGCGCGTC	ACAAAACTTT	CAGTGTTGCC	ACTCAAGG		1968
(0)						

## (2) INFORMATION FOR SEQ ID NO: 120:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 7172 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCGCATTTTT TATCACTAGA	CTCGAGACAT	CTTTTGAGTG	GCTCTTGCTC	TCTGGTTTAA	60
TTTTCTTCCT TGCTCAAGGA	CTCCTGCTAT	TTCTCTTGGT	CGTCCGACTC	AAACATCAAT	120
TCGCTGAGAT TTATCCTCAA	ATCAATAAAA	AGATTCGCTT	CTACTATTTA	GGGGTTCTCA	180
CCATTGATTT TCTATTTTTT	GTTCTCTTAG	CCTTCATTAG	TTCTCAGCGT	TTTTCATCTC	240
TTATGCCAAT CATCACTGCT	TGCCATTCTA	CTTTTTATTA	TATGACAGCT	GACTACCTAA	300
GAGAAAACTA TCCAGACTTT	TACGACAAAC	ACATCTCTTT	ATGGGAGTGT	CTCTAAAGAA	360
AAGGAGGTTT TAGCATGAAA	AAAATCATCT	TCATCAAAAC	CATTCAACTC	CTTGTCATTG	420
ATGGAATCAT GCTGGCATTT	TTGACATTTA	AAAGGGGGCT	TACTTGGGAC	TGGATTTTGA	480
TTTATAGCGG TTGGCTCATT	TTCTTTCATC	CTGTGCTATT	GACCTATCTT	TCAAACCAAC	540
TTTGTGACCA CTTTAGTTAA	CTCTATTCCC	AGATTAGACC	GAGATTCTGG	CGTTTTGCTT	600
TACAAATTCT CCTATGGGAT	AGCCTGATGA	TTCTCTCCTT	GGTGTCTTTA	AGTGATATTC	660
CACTTTTCCT TCAGGGAACT	CTCCTCATCC	TAGGACATCT	CATCCCTTCC	TATCGCATCT	720
GCCAAAGCCT GAAAAGAGAC	TTCCCCCAAG	CATATCAAGA	ACCGATTTCT	TTTTGGAGTA	780
TTTTATGATA GATGAGAAAG	ACCAAGCCGA	CTGGGCTTGG	TCTTTCTTAT	CTCTTTTTAG	840
TATCTAGGAT AATGGTAACA	GGTCCATTAT	TAACCAGCTC	AACCTGCATA	TCTGCTCCAA	900

AGATGCCTGT	CTGAACGGGC	ACTTCTTGCG	CTAATTTTTG	ATTGAAAGCA	TCATAGAAGT	960
CTGATGCCAT	ATCAGGTTTA	GCTGCCCCTG	TAAAGgCTGG	ACGATTGCCT	CTCTTAGTAT	1020
CCGCAAAGAG	GGTAAACTGA	GAAATAGAGA	GGATTTCTCC	TTCAATATCT	TTGACAGACA	1080
GGTTCATCTT	GCCTTCTGCG	TCTGAAAAA	TCCGCATATT	GACCAGTTTT	CTCACAGCAT	1140
AGTCCAAATC	TTCCTCTTGG	TCCTCTGGTC	CAACACCAAC	CAGCAATAAA	AGTCCCTGAT	1200
TGATTTTTCC	CTGAATCTGG	CCTTCTATAC	TCACTTGGGC	TTTTTTAACC	CGTTGGATAA	1260
TGATTTTCAT	AATAGCCTTT	CTAGTAAGAG	CTAGGACAAC	TAGCCGTTGG	TCCGTTTGAC	1320
AGAGTAAACT	TCTGGCACAC	TCTTAATTTT	ATCGACAACC	GTGGTCAGTG	TAGAGAGGTT	1380
GGCAATACCG	AAGgACACAT	GGATATTAGC	AAACTTCATA	TCCTTGGTTG	GTTGGGCATT	1440
GACCGTTGAA	ATATTCTTGG	TTGTATTTGA	AAGAACTTGC	AGTACATCGT	TCAACAGTCC	1500
TGTACGGTTG	AGACCGTAGA	TATCGATATG	GGCCATATAC	TCCTTATTTG	AGCTAGGGTA	1560
CTGGTCTTCC	CATTCCACAT	CAAGGAGACG	TTGCTCGTAG	TTTTCTTGGG	CACGCAGGTT	1620
CATACAGTCC	ACACGGTGAA	TAGCCACACC	ACGACCCTTG	GTAATGTAGC	СААСААТАТС	1680
GTCACCAGGC	ACGGGGTTAC	AACACTTAGC	AATCCGCACT	AGGAGACCAG	AAGCACCTTC	1740
AATAACCACT	CCCCCTCAT	GCTTGACCTT	GAGGGTTTCT	TTATTTTCAA	CCTTGACCTC	1800
GCCACCTTTG	ACAAGCTCCT	CTGCCTCAGC	TTTGGCCTTG	GCACGCTCTT	CCTCACGGCG	1860
TTCCTTTTCA	GTCAGACGGT	TAAAGACGGT	AATCGCACCG	ATTTCCCCAA	AACCAATGGC	1920
CGCAAAGAGG	GAGTCTTCTG	TCTTGTAACT	GGTCTTTTGC	AGAACTTGAT	CCATGTGGCG	1980
CTTGTCCATA	AATTTATTTG	CCACATAGCC	ATTTTCTTGG	AACTGAGCCA	TCAGCATCTC	2040
ACGACCCTTG	TTGACAGACA	ATTCCTTATC	TTGGTTTTTA	AAGAACTGGC	GAATCTTATT	2100
GCGCGCCTTG	CTAGTCTTGA	CCATATTGAG	CCAGTCACGG	CTAGGTCCAA	AGGAGTTCGG	2160
GTTGGCGATA	ATTTCAACCT	GATCCCCTGT	CTTTAACTTG	GTTGTCAGTG	GAACCATGCG	2220
GCCATTGACC	TTGGCACCAG	TTGCTTTTTC	ACCGACCTTG	GTATGGATTT	CGTAGGCAAA	2280
ATCAATCGGT	CCTGAATCTT	TGGGAAGGGA	ACGGACAGCT	CCATCTGGGG	TAAAAACGTA	2340
AATCTCCTCA	GCCAAATAGT	TTTCCTTAAC	AGAGTCCACA	AATTCCTTAG	CATCATCAGC	2400
CTGGTCTTGG	AGCTCCATCA	TCTCCTTGAT	CCAGTTCATT	CCAATAGCTG	ATTCCTTGCT	2460
GTTAACTTGC	CCCTTTATAC	CTTTCTTATA	AGCCCAGTGA	GCCGCAACCC	CGTACTCAGC	2520
CACCTCGTGC	ATTTCCTTGG	TTCGAATCTG	GAATTCAATC	GGCCCTTTTG	GTCCATAAAC	2580
AGTCGTATGG	ATAGACTGAT	AACCATTGGC	CTTGCGGTTG	GCGATATAGT	CTTTGAAGCG	2640

848 ACCTGGCATC GGTTTCCAAA ATTCATGCAC GTAACCAAGC ATGGCATAAA CATCACTTTG 2700 GGTATCTAAA ATACAACGAA TAGCAATCAG ATCATAGATT TCCTCAAACC GTTTTCTCTT 2760 GTCCTGCATT TTGCGGAAAA TTGAGTAAAT ATGCTTGGGA CGACCATAAA TCTTCCCTTT 2820 CAAGTGACGT TCTGTCGTAT ACTCCTCTAA TTTTGTGACT ACCTCATCCA CCAAGGCCTC 2880 ACGCTCCCTG CGCTTTTCCT TCATCATATG GGTAATCTTG TAAAACTCCG TTGGATTGAG 2940 ATAACGGAAA GACAAGTCTT CTAATTCCCA TTTGACACTG GAAATCCCCA AACGATGGGC 3000 AAGCGGGGCA TAGATTTCCA TGGTTTCTTT GGAAATACGC TCCTGCTTGT CTTTTCGAAG 3060 ATGTTTCAGG GTCCGCATAT TGTGCAAGCG GTCAGACAGT TTGACCAAAA TAACGCGGAT 3120 GTCCTCAGAC ATGGCCATGA GCATCTTGCG ATGATTTTCC GCTAATTGCT CCTCGATCGA 3180 TTTGTACTCG ACCTTGCCAA GCTTGGTAAC TCCGTCAACA ATCATCCGCA CATCAGGACC 3240 AAACTCTCTT TCCAAATCGT CCAAAGTCGC ATCTGTATCT TCCACCACAT CATGCAAGAA 3300 3360 AGGGTGAATG ATATAAGGCT CGCCTGATTT GCGATATTGA CCACTGTGGC ATTCAACAGC 3420 ATAGACCAAG GCCTTATGGA CAAAATGAAC ATCCTCTTCC GTTAAATATT CTTTGGTTAA 3480 AGCGACAACT TCTTCGCCTG TTAAATTCAC TTCTTTCGGC ATCTCTACTC TCCAATTCTT 3540 CCTACCATTT TATCACTTTT TTAAGAATAT GAAAACTAGA TTGGAACAGA ATAAGAAAAA 3600 AATAATTCAA AATTGCTTGA TAATTCTGAA TTATTGGTCC GTAATATACT ACGAAGTTAG 3660 ATTTTAAACT TAGGTGATAG AAGGAGAGAT AGAAGAACGG AAACCATATT GTAACCCAAA 3720 GACTTTCTGA CTTCCCCAAT TCCATTGAAG ATACGAAAGA TAAACGGTGG AACTCGTATC 3780 ACATACACTG GTACCTTGAC TGGATTTTGG AATTAATACT AAATGAAAAT CAAAGAGCAA 3840 ACTAGGAAAC TAGCCGCAGG TTACTCAAAG CACCGCTTTG AGGTTGCAGA TAAAGTTGAC 3900 GCGGTTTGAA GAGATTTTTG AAGAGTATAA AAATCCTCAA GATACTTTCT TCTATCCTTT 3960 AGTTTATAAG GAGAATACCT ATGAAAAAAA CTGCTATTTC TATCTTTGCT CTCCTAATGT 4020 TAGGAGTTTG CTGCCTGTTC CTATTCAGCC AGCAAAGCTA TAAAAAACAG TCGTTCAATA 4080 CTATGCTAAC GACCAGAACC TGCCCAGTAG GATAACTTAT AGTGAATATA GCGACAAATG 4140 AGAAGCCAAC TACGGTAGCA CTCTAAACAT CACGTCTATC AAACAAGCTA ATGACGGAGT 4200 TTATGCAACC TATGAAGGGC AATTGACACC TTTCCAATAT TGATAAATTG ATAACCAGCC 4260 TGTCTTCATC TAGTCATGCT GGTTTTTAAG TTCATTTTAA ATCCTTACCT ATTCTCCCTA 4320 ACTGTGCTAT ACTTAATTTA TACTCAATGA AAATCAAAGA GCAAACTAGA AAGCTAGCCG 4380 CAGGCTGTTC AAAGCACTGC TTTGAGGTTG CAGATAAAGT TGACGCGGTT TGAAGAGATT 4440

TTCGAAGAGT	ATTAGTACAT	TCTTTGAGAT	TGGAGCTAGT	ATGAAAATCC	ATAAAACCGT	4500
GAATCCTGTT	GCCTATGAAA	ATACCTATTA	TCTAGAAGGC	GAAAAGCACC	TCATCGTCGT	4560
CGATCCTGGT	AGTCATTGGG	AAGCCATTCG	TCAGACAATC	GAGAAGATCA	ACAAACCGAT	4620
CTGTGCTATT	CTCTTGACCC	ACGCCCATTA	TGACCATATC	ATGAGTCTGG	ACTTGGTTCG	4680
CGAGACGTTT	GGCAATCCTC	CTGTCTATAT	CGCAGAGAGC	GAAGCCAGCT	GGCTCTACAC	4740
TCCTGTCGAT	AATCTCTCCG	GTCTCCCTCG	CCACGATGAT	ATGGCAGATG	TGGTCACAAA	4800
ACCTGCAGAA	CACACCTTTG	TCTTTCACGA	AGAATACCAA	CTAGAGGAAT	TTCGTTTTAA	4860
GGTTCTACCG	ACCCCAGGGC	ACTCTATCGG	TGGTGTTTCC	CTAGTCTTTC	CTGATGCTCA	4920
TCTAGTCTTG	ACGGGAGATG	CTCTATTCCG	CGAAACTATC	GGACGGACCG	ACCTTCCGAC	4980
TGGTAGCATG	GAGCAACTCC	TTCATAGTAT	CCAGACCCAA	CTCTTCACCC	TACCAAACTA	5040
CGATGTCTAT	CCAGGACATG	GTCCAGCTAC	TACTATCGCT	CACGAAAAGG	CCTTCAATCC	5100
CTTTTTCTAG	CAAGATGATG	ACAATCGAAA	TTTAAGTAAA	CTATCCAGCA	AATCTTTCTA	5160
TTACAAAAGG	CATCCTATCA	AGGTTTTCAC	ACATGATTGG	ATGCCTTTTT	TCTGATGACT	5220
AGATTTTTTG	CATTACCAAA	TAATCACGCG	CTCCTCTGGT	GAACGCCACA	TTCCGTCTCC	5280
TTCTTTGACA	TCATAGGTTG	TAAAGAAATC	GTCGAAGTTT	GGTACTTGCA	CATTGACACG	5340
GAGTTTGGCT	GGTGCGTGCA	CATCGACGCT	AGCCAAAAGT	ТТСАТАААТТ	CTGGTCGACC	5400
TTTCATGCGC	CAGATGCGAC	CGAAGTTGTA	GAAGAACTCT	TCTGCTGAGA	AGTCTGCTTC	5460
TCTCTTAGCT	GCTTCAAGCG	CTGCTGCGAT	TCCTCCCAAG	TCAGCCACGT	TTTCTGATAC	5520
AGTCAATTTA	CCGTTAATGG	TTGCTCCATA	AGAATCCTGT	CCATCAAATT	GGTCAATGAC	5580
TTTTTGTGTT	TTCTCCTTGA	AGGCAGCATA	GTCGCTCTCT	GTCCACCAAT	CCTTGAGGCT	5640
ACCATTTTCG	TCAAAGGAAG	CCCCGTTAGT	ATCAAAGGCG	TGGGAAATTT	CATGGGCAAT	5700
CACTGCCCCA	ATACCACCGT	AGTTAGCAGA	AGATGACTGA	TGCAAGTCAT	AGAAAGGCGC	5760
CTGTAAAATG	GCCGCTGGAA	AGACAATCAG	GTTCTTCTGA	GGATTGTAGT	AGGCATTGAC	5820
CATATGAGCA	GGCATGCCCC	ATTCCTTATA	ATCTACAGGC	TGGTTCCACT	TACTCCAACT	5880
GTGCTTGATT	TCCACACGCG	CAAAGGCTAG	AGCATTCTCA	AAAAGACTGG	CAGTTTCATT	5940
CACTACCTTA	TCCTTGTAAC	GTGCAGGCAA	TTCTTCTGGA	TAGCCAATAT	AAGGTTTGAT	6000
CACATTGAGC	TTCACGATAG	CCTGTTTACA	GGTTTCTGGA	GTGAGCCAGT	CATTCTTAAG	6060
CAGACGCTCC	TTATAAACAT	CAATCATGGT	TGCCACTTTT	TTCTCCACAT	CCGCCTTGGC	6120
TTCTGGAGAG	AACTTCTCAC	GGGCGTACCA	AAGACCCAGG	GCTTGCTTGA	AAGGTTCTTG	6180

850	
TGCTAGATGA TAAGCTGCTT TGACCTTATC TTTTGCCTCT GGAACTCCAG AAAGGGCAC	G 6240
GCTGTAGGCA CCAGACAAAA CACGGATATC CTCTGTTAAA TAGCTGGTTG AAAGATTGA	.C 6300
AACACTCAAA ATCAAGGTTG CTTTAAGGAG AGACCAGGCT TCCTCACTGT AGAATTGCT	C 6360
TGCTGCTTGC CAGAAACGTT CCTCGTCTAC AATAACCTTG TCTGGTAATT GCCCAATAA	.C 6420
TGCTTTGAAG AAGTCATCCA AAGGTAGGGC AGGCGCGAAT TTCTTGAAAT CTTCGTAAG	A 6480
ATATGGATGA TAGAGTTTAG CATATTCTGA ACTTTCTTCA TTAGAGAGCA CCACTGCCG	C 6540
AACTCGGCGG TCCAATTCAA GTCTTTTTTC TAGCAAGTCT TCAATTTCTT CATCAGAGA	A 6600
ATCATAAGCC TTGAGGAGAT TTGCGCTGCT TTCTTTCCAA AGAGTCAAGA GCTCTTCGC	G 6660
CTGAGGATGT TCTTCTGCAT AGTAGGTCGT ATCTGGCAAG ATTGTGCTTG GAGCGCTAG	C 6720
CCATAGAACA TTGATTCTAG CATCCATAAA GTCTGGCGAT ACACCAAAAG GAAGGAAGT	т 6780
TGGTTTTCCT GCAAGCTCAA ACTCTGCTAG TTTAGCTGTA AAATCCGCAA AAGTCTCCA	A 6840
TTCTTGGAAT TCTTTAAGGA GTGGTAAGAC AGGTGTGATA CCGTCAGCTT CTCTCTTGT	C 6900
AAAATCACGA ACTAGGCGGT GGTATTTGAC AAAGTTTTCC AAGATAGCAT CCTCAGGCA	C 6960
TTCTTCACCT GCTAACCACT TGTCTGTTGT CGCCAGCATC AGGTCTTCAA TTTCCTGGT	C 7020
TAAATCAACA AAACCTCCTG TTTGAGACTT ATCTGCTGGG ATTTCAGCTG TCTGTTGCC	A 7080
TTCTCCATTG ATAGCATCAT AAAAATCATC TTGATAACGT GTCATCTTGT TCTCGCTTT	C 7140
ATTTGTATTT GCATTTATCT TAACAAAAAT CG	7172
(2) INFORMATION FOR SEQ ID NO: 121:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 4518 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:	
CGGGAAGTTA TGCGATCTAG ACTTCGTTCC TGTACAGCTA CTTTCTCAGG TGGTCTTGT	r 60
GTTTGTATGA GTTTGTTTAG AGAGGATCTT TCTATGTCTT TCTTTCTTAT TTTTGTTTTT	A 120
TATGCTTTTC TGATTTCTTA TCTAATTTAT GGTTATTTCA GACTAAAAAG GAAATACCG	A 180
GTAGATGAAT AGCAAGGTTC TAGGTCTTCA GATTGATTTT TAGCACTCTT GATAAAAGA	G 240
TGCTAATTTT TTGAGTTTTT GTCTTGACAT TCTCTTCTAA GGGTGTATAA TAGAATCATC	G 300
AGTTAGCACT TGGATGCATT GAGTGCTAAT TGATCAGACA GAGAGGAGTG ATGAGATGG	r 360
TACAGAGCGT CAGCAGGATA TTTTAAATCT GATTATTGAC ATCTTTACCA AAACGCACGA	A 420

ACCTGTCGGA	TCAAAAGCCT	TGCAAGAGTC	TATTAACTCT	AGCAGTGCAA	CCATTCGTAA	480
TGACATGGCG	GAACTAGAAA	AACAAGGGTT	GCTTGAGAAG	GCTCATACTT	CAAGTGGTCG	540
GATGCCAAGT	GTTGCTGGTT	TTCAGTACTA	TGTGAAACAC	TCACTGGATT	TTGACCGGCT	600
GGCTGAAAAT	GAGGTATATG	AGATTGTCAA	AGCCTTTGAT	CAGGAATTCT	TCAAATTGGA	660
GGATATTCTG	CAAGAGGCTG	CTAACTTACT	AACAGACCTG	AGTGGCTGTA	CGGTAGTGGC	720
ACTGGATGTT	GAGCCGAGCA	GGCAACGTTT	GACAGCCTTT	GATATCGTTG	TTTTGGGGCA	780
ACATACAGCC	TTGGCGGTAT	TTACCCTAGA	CGAGTCGCGA	ACGGTTACTA	GTCAGTTTCT	840
GATTCCAAGG	AACTTCTTGC	AGGAGGATTT	GCTGAAACTG	AAGAGCATCA	TTCAGGAACG	900
TTTCCTCGGT	CACACCGTTT	TAGATATTCA	CTACAAGATT	CGGACGGAGA	TTCCGCAGAT	960
TATCCAGCGT	TACTTTACAA	CAACGGATAA	TGTCATCGAT	CTCTTTGAAC	ACATCTTTAA	1020
GGAAATGTTC	AACGAAAACA	TTGTGATGGC	GGGCAAGGTC	CATCTCTTGA	ATTTTGCCAA	1080
TCTAGCAGCC	TATCAGTTCT	TTGACCAACC	GCAAAAGGTG	GCCTTGGAGA	TTCGTGAGGG	1140
GTTGCGTGAG	GATCAGATGC	AAAATGTTCG	TGTTGCAGAC	GGTCAAGAGT	CCTGTTTAGC	1200
TGACCTAGCG	GTAATCAGTA	GTAAGTTCCT	CATTCCTTAT	CGGGGAGTTG	GAATTCTAGC	1260
CATTATCGGT	CCAGTTAATC	TGGATTACCA	ACAGCTAATC	AATCAAGTCA	ATGTGGTCAA	1320
CCGTGTTTTG	ACCATGAAGT	TGACAGATTT	TTACCGCTAC	CTCAGCAGTA	ATCATTACGA	1380
AGTACATTAA	GATTGAAATC	ATTAAAGGAG	GCGAACATGG	CCCAAGATAT	AAAAAATGAA	1440
GAAGTAGAAG	AAGTTCAAGA	AGAGGAAGTT	GTGAAAACAG	CTGAAGAAAC	AACTCCTGAA	1500
AAGTCTGAGT	TGGACTTGGC	AAATGAACGT	GCAGATGAGT	TCGAAAACAA	ATATCTTCGC	1560
GCTCATGCAG	AAATGCAAAA	TATCCAACGC	CGTGCCAATG	AAGAACGTCA	AAACTTGCAA	1620
CGTTATCGTA	GCCAGGACTT	GGCAAAAGCA	ATCTTACCAT	CTCTTGACAA	CCTTGAGCGT	1680
GCACTTGCAG	TTGAAGGTTT	GACAGATGAT	GTGAAGAAGG	GCTTGGGGAT	GGTGCAAGAA	1740
AGCTTGATTC	ACGCTTTGAA	AGAAGAAGGA	ATTGAAGAAA	TCGCAGCAGA	TGGCGAATTT	1800
GACCATAACT	ACCATATGGC	CATCCAAACT	CTCCCAGCAG	ACGATGAACA	CCCAGTAGAT	1860
ACCATCGCTC	AAGTCTTTCA	AAAAGGCTAC	AAACTCCATG	ACCGCATCCT	ACGCCCAGCA	1920
ATGGTAGTGG	TGTATAACTA	AGATATAAAG	CCCGTAAAAA	GCTCGCAGTA	AAAATAGGAG	1980
ATTGACGAAG	TGTTCGATGA	ACACAAGAAA	ATCTATCTTT	TTTACTCAGA	GCTTAGGGCG	2040
TGTTCGATTC	GGCAATTCTG	ACGGTAGCTA	AAGCAACTCG	TCAGAAAACG	GCAATCGCTA	2100
тессеттисе	CMACCMMCCM	MACMA ACMCC	mccmccx x x m	7 7 7 MCC 7 MM	maaa amaama	0166

852 GTGTCGCAAT TTACATAATA GAAAACTTGT CCGAAACGAC AATAAACTAT GAAGAAAGAT 2220 AAAATATGTT TGGCTTTGTA ATAGTGAGCG AAGCGAACCA AACACGATAC TCTTCGCCGT 2280 GGCGCTATTT GCGCAAATTT TGAGACCTTA GGCTCAAAGT TTAGTCAAAG AGATTGACGA 2340 AGTCAAGCTC TGACGGCGTC GCCACTGTCG CCACTTAAGA AGAGTATCAA AAAGAAAAAT 2400 AGAAAATTAA CTAACAAGGA GAAAAACACA TGTCTAAAAT TATCGGTATT GACTTAGGTA 2460 CAACAAACTC AGCAGTTGCA GTTCTTGAAG GAACTGAAAG CAAAATCATC GCAAACCCAG 2520 AAGGAAACCG CACAACTCCA TCTGTAGTCT CATTCAAAAA CGGAGAAATC ATCGTTGGTG 2580 ATGCTGCAAA ACGTCAAGCA GTTACAAACC CAGATACAGT TATCTCTATC AAATCTAAGA 2640 TGGGAACTTC TGAAAAAGTT TCTGCAAATG GAAAAGAATA CACTCCACAA GAAATCTCAG 2700 CTATGATCCT TCAATACTTG AAAGGCTACG CTGAAGACTA CCTTGGTGAG AAAGTAACCA 2760 AAGCTGTTAT CACAGTTCCG GCTTACTTCA ACGACGCTCA ACGTCAAGCA ACAAAAGACG 2820 CTGGTAAAAT TGCTGGTCTT GAAGTAGAAC GTATTGTTAA CGAACCAACT GCAGCAGCTC 2880 TTGCTTATGG TTTGGACAAG ACTGACAAAG AAGAAAAAAT CTTGGTATTT GACCTTGGTG 2940 GTGGTACATT CGACGTCTCT ATCCTTGAAT TGGGTGACGG TGTCTTCGAC GTATTGTCAA 3000 CTGCAGGGA CAACAACTT GGTGGTGACG ACTTTGACCA AAAAATCATT GACCACTTGG 3060 TAGCAGAATT CAAGAAAGAA AACGGTATCG ACTTGTCTAC TGACAAGATG GCAATGCAAC 3120 GTTTGAAAGA TGCGGCTGAA AAAGCGAAGA AAGACCTTTC TGGTGTAACT TCAACACAAA 3180 TCAGCTTGCC ATTTATCACT GCAGGTGAGG CTGGACCTCT TCACTTGGAA ATGACTTTGA 3240 CTCGTGCGAA ATTTGACGAT TTGACTCGTG ACCTTGTTGA ACGTACAAAA GTTCCAGTTC 3300 GTCAAGCCCT TTCAGATGCA GGTTTGAGCT TGTCAGAAAT CGACGAAGTT ATCCTTGTTG 3360 GTGGTTCAAC TCGTATCCCT GCCGTTGTTG AAGCTGTTAA AGCTGAAACT GGTAAAGAAC 3420 CAAACAATC AGTAAACCCT GATGAAGTAG TTGCTATGGG TGCGGCTATC CAAGGTGGTG 3480 TGATTACTGG TGATGTCAAG GACGTTGTCC TTCTTGATGT AACGCCATTG TCACTTGGTA 3540 TCGAAACAAT GGGTGGAGTA TTTACAAAAC TTATCGATCG CAACACTACA ATCCCAACAT 3600 CTAAATCACA AGTCTTCTCA ACAGCAGCAG ACAACCAACC AGCCGTTGAT ATCCACGTTC 3660 TTCAAGGTGA ACGCCCAATG GCAGCAGATA ACAAGACTCT TGGACGCTTC CAATTGACTG 3720 ATATCCCAGC TGCACCTCGT GGAATTCCTC AAATCGAAGT AACATTTGAC ATCGACAAGA 3780 ACGGTATCGT GTCTGTTAAG GCCAAAGACC TTGGAACTCA AAAAGAACAA ACTATTGTCA 3840 TCCAATCGAA CTCAGGTTTG ACTGACGAAG AAATCGACCG CATGATGAAA GATGCAGAAG 3900 CAAACGCTGA AGCCGATAAG AAACGTAAAG AAGAAGTAGA CCTTCGTAAT GAAGTAGACC 3960

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AAGCAATCTT	TGCGACTGAA	AAGACAATCA	AGGAAACTGA	AGGTAAAGGC	TTCGACGCAG	4020
AACGTGACGC	TGCCCAAGCT	GCCCTTGATG	ACCTTAAGAA	AGCTCAAGAA	GACAACAACT	4080
TGGACGACAT	GAAAACAAAA	CTTGAAGCAT	TGAACGAAAA	AGCTCAAGGA	CTTGCTGTTA	4140
AACTCTACGA	ACAAGCCGCA	GCAGCGCAAC	AAGCTCAAGA	AGGAGCAGAA	GGCGCACAAG	4200
CAACAGGGAA	CGCAGGCGAT	GACGTCGTAG	ACGGAGAGTT	TACGGAAAAG	TAAGATGAGT	4260
GTATTGGATG	AAGAGTATCT	AAAAAATACA	CGAAAAGTTT	ATAATGATTT	TTGTAATCAA	4320
GCTGATAACT	ATAGAACATC	AAAAGATTTT	ATTGATAATA	TTCCAATAGA	ATATTTAGCT	4380
AGATATAGAG	AATTATATTA	GCTGAACATG	ATAGTTGTAT	CAAAAATGAT	GAAGCGGTAA	4440
GGAATTTTGT	TACCTCAGTA	TTGTTGTCTG	CATTTGTATC	GGCGATGGTA	CCGTATCTGA	4500
CGAACGTTCA	GCTTATAT					4518

### (2) INFORMATION FOR SEQ ID NO: 122:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 8145 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

TGCTATTTTC	GATTCCCTTG	GGCGTTTTGA	TTGCCTTTGC	CTTGCAAGTC	CATTGGAAGC	60
CCCTCCATTA	TCTGATTAAC	ATTTACATCT	GGGTTATGCG	AGGAACCCCC	TTACTCTTGC	120
AACTGATTTT	TATCTATTAT	GTGCTCCCAA	GTATTGGGAT	TCGTTTAGAC	CGCCTTCCTG	180
CAGCTATTAT	TGCCTTTGTT	CTCAACTATG	CAGCTTACTT	TGCAGAAATT	TTCCGTGGGG	240
GAATTGACAC	TATTCCAAGA	GGACAGTATG	AGGCCGCCAA	GGTCTTGAAG	TTTAGCCCTT	300
TTGACAGAGT	GCGCTATATT	ATCTTGCCCC	AAGTGACCAA	GATCGTTCTT	CCTAGTGTCT	360
TTAATGAAGT	TATGAGTTTG	GTCAAGGATA	CTTCTTTGGT	CTATGCTCTC	GGAATTTCAG	420
ACCTTATCTT	GGCTAGTCGA	ACAGCTGCTA	ACCGCGATGC	TAGTCTAGTT	CCTATGTTCT	480
TGGCAGGAGC	CATTTATTTG	ATTTTGATTG	GGATTGTGAC	AATTATTTCC	AAAAAAGTTG	540
AGAAGAAGTA	TAGTTATTAT	AGATAGGAGG	CTGCCATGTT	AGAATTACGA	AATATCAATA	600
AAGTCTTTGG	AGACAAACAA	ATCCTGTCTA	ATTTCAGTCT	AAGTATTCCT	GAAAAGCAAA	660
TCCTGGCTAT	CGTTGGACCT	TCTGGTGGAG	GTAAGACAAC	TCTTTTACGT	ATGCTTGCAG	720
GTCTTGAAAC	CATTGATTCA	GGGCAAATCT	TTTATAATGG	ACAACCTTTA	GAGCTGGATG	780

እ እ <b>ጥጥርር እ</b> ር እ አ	CCCCA A MCMA	CMCCC A MMMC	854	MMMMC A A CM A	mmmaamaa ma	0.40
		CTGGGATTTG				840
TATCAGTTCT	GGAAAATTTG	ACTTTATCGC	CTGTGAAGAC	CATGGGAATG	AAGCAGGAAG	900
AGGCTGAGAA	GAAGGCGAGT	GGACTCTTGG	AACAGTTAGG	ACTAGGAGGA	CACGCAGAGG	960
CCTATCCTTT	CTCACTATCT	GGTGGGCAAA	AGCAGCGGGT	GGCTTTGGCG	CGTGCTATGA	1020
TGATTGACCC	AGAAATCATT	GGCTACGATG	AACCAACTTC	TGCCCTGGAT	CCAGAATTAC	1080
GTTTGGAAGT	GGAGAAGCTA	ATCTTGCAAA	ATAGGGAACT	TGGGATGACC	CAGATTGTGG	1140
TTACCCATGA	TTTGCAGTTT	GCTGAAAATA	TCGCAGATGT	ATTATTGAAA	GTAGAACCTA	1200
AATAGGAGGA	AAAATGGATG	AAAAAATGGA	TGCTTGTATT	AGTCAGTCTG	ATGACTGCTT	1260
TGTTCTTAGT	AGCTTGTGGG	AAAAATTCTA	GCGAAACTAG	TGGAGATAAT	TGGTCAAAGT	1320
ACCAGTCTAA	CAAGTCTATT	ACTATTGGAT	TTGATAGTAC	TTTTGTTCCA	ATGGGATTTG	1380
CTCAGAAAGA	TGGTTCTTAT	GCAGGATTTG	ATATTGATTT	AGCTACAGCT	GTTTTTGAAA	1440
AATACGGAAT	CACGGTAAAT	TGGCAACCGA	TTGATTGGGA	TTTGAAAGAA	GCTGAATTGA	1500
CAAAAGGAAC	GATTGATCTG	ATTTGGAATG	GCTATTCCGC	TACAGACGAA	CGCCGTGAAA	1560
AGGTGGCTTT	CAGTAACTCA	TATATGAAGA	ATGAGCAGGT	ATTGGTTACG	AAGAAATCAT	1620
CTGGTATCAC	GACTGCAAAG	GATATGACTG	GAAAGACATT	AGGAGCTCAA	GCTGGTTCAT	1680
CTGGTTATGC	GGACTTTGAA	GCAAATCCAG	AAATTTTGAA	GAATATTGTC	GCTAATAAGG	1740
AAGCGAATCA	ATACCAAACC	TTTAATGAAG	CCTTGATTGA	TTTGAAAAAC	GATCGAATTG	1800
ATGGTCTATT	GATTGACCGT	GTCTATGCAA	ACTATTATTT	AGAAGCAGAA	GGTGTTTTAA	1860
ACGATTATAA	TGTCTTTACA	GTTGGACTAG	AAACAGAAGC	TTTTGCGGTT	GGAGCCCGTA	1920
AGGAAGATAC	AAACTTGGTT	AAGAAGATAA	ATGAAGCTTT	TTCTAGTCTT	TACAAGGACG	1980
GCAAGTTCCA	AGAAATCAGC	CAAAAATGGT	TTGGAGAAGA	TGTAGCAACC	AAAGAAGTAA	2040
AAGAAGGACA	GTAAGATAAA	ATAGTGGCTG	AAACTGCGTT	TTGATTAGCA	AAACGTAGTT	2100
TTTTTTGTAA	TCTAGGAAAA	CGATAATAGC	GATTGAATAT	GGATAATTGA	ATATGGAATA	2160
GCCCACTGTG	ATTTCTAAAA	CATTGTTAAA	AATTGATTTG	ACTTCCAAAA	TTAAAATGTT	2220
CTGTAATGAA	ATACTGATGT	AACTGTTTTA	GGAACAATAA	AACGCATAAT	ATCAAGGTTT	2280
TTGCACCTTA	CATTATGCGT	TTTTGTGATT	TTAAGACTTG	TTAGCTGATT	TTTTACAATC	2340
CTGCGAAATC	TTTGATTTCT	TGTGCTGACA	TTGAAGAGTC	GCAACGGACG	TTGATTTGTC	2400
CATCTGTAAT	ATGAACAAAA	CCTGGTACAG	TTGGGATTCC	ATAGCGTGAG	CGGAATGCTT	2460
GCAAATCATT	GAGTTGGCTT	GGTTCTTCAC	TATTGATGAA	GTAAATGTGA	GCTTTGGTTT	2520
CAGCTACGAC	ACCTGACAAT	GTACCTGCAA	ATTTACGGCA	GTAAGGGCAA	GTTTTGCGAC	2580

CGATAAAGAA (	GGTTGCAGTT	TCTTTTTTAT	CAAGAGCTTC	TTGCGCACGC	ACAACTGTAG	2640
TGACTTCAAG (	GTCTTTGATG	ТТАТСТАААА	ATTGTTCCAT	GAGATTACCT	CGCTTTCATT	2700
GATAAGTCTA (	GTATGCCATA	AAGTTTCTAA	AATTGCTTAG	ATTTGATACG	AAAAAAGATG	2760
AGGTTGGTTG (	GTCTCATCTT	TTATAGGTCT	TTATTTTACA	AATGCATTGA	TTTCTGCTTC	2820
GATGTTAGCA A	ATCTTAGCTT	GTGATTCTTC	GTTGGTTTCC	CCTACAACTG	CAATGTAGAA	2880
CTTGATTTTT (	GGTTCTGTAC	CTGAAGGGCG	AACGGCAATC	CATGAACCGT	CAGCAAGTGT	2940
GTATTTCAAC A	ACATCACTTG	GAGGAGTTGT	CAAGTTTGTA	ACAGTACCGT	CAGCAACAGT	3000
AGCAGTTTGT (	GCCTTGAAGT	CTTCTACGAC	AGTGATAGCT	GTTGCGTTCC	ATTCTGTTGG	3060
AGCATTGTTG (	CGGAATTTAG	CCATAATCGC	TTTGATTTGT	TCAGCACCAT	CGACACCTGA	3120
AAGAGTAACA (	GAGATTGTTT	TTTCTGCGTA	GTAGCCATAT	TCTTTATAGA	TTTCTTCGAT	3180
ACCGTCAGCA	AGTGTCAAAC	CACGAGAACG	GTAGTAGGCA	GCAAGTTCAG	CAACTACAAG	3240
AACGGCTTGG A	ATGGCATCTT	TATCACGTAC	AAATGGTTTA	ATCAAGTAAC	CGAAGCTTTC	3300
TTCAAATCCC A	ATCATGTAAG	TGTGGTTGTG	TTTTTCTTCG	AATTCTTGGA	TTTTTTCAGC	3360
GATAAATTTG A	AAACCTGTCA	AGACGTTGAA	CATAGTTGCG	CCGTAGCTTT	CAGCAATCTT	3420
CGTTACCAAG T	CAGTTGAAA	CGATAGATTT	GCAGAGAGCG	GCATTTTCAG	GAAGAGTTCC	3480
AGCGTTTTTG 1	FGAGCTTCCA	AGATGTATTT	AGCCATGATA	GCACCGATTT	GGTTACCTGA	3540
AAGGTTGAGG 1	PAGCTACCAT	CTTTTTGAAG	AACTTCAACA	CCAACACGGT	CAGCGTCTGG	3600
GTCAGTTGCG A	ACAAGAACAT	CTGCACCAAC	TTGACGACCA	AGTTCTTCAG	CAAGGGCAAA	3660
GGCTGCTTGG C	CTTTCTGGGT	TTGGAGATGT	TACAGTTGAA	AAGTCTGGGT	CAGCAGTTGC	3720
TTGCGCTTCA A	ACAACTTGAA	CAGAGTCAAA	TCCTGCTTGG	GCAAGAGCAC	GACGAGCCAA	3780
CATTTCACCA C	STACCATGAA	GTGGTGTGTA	GACAATCTTC	ATGTCTTTAC	CAAATTCTTC	3840
AATCAAGGCT G	GGTTGATGT	TTATGTCCTT	AACCTCTTTA	AGGTATTCTA	TGTCAACAGC	3900
TTCGCCGATA A	ACTTCAATCA	AGCCAGAAGC	TTTTTCAGTT	TCCACATCAG	CAACTTCAAC	3960
TGCAAATGGG T	TTTCGATTG	CACGGATATA	AGTAGTCAAA	GCGTCCGCAT	CGTGTGGAGG	4020
CATTTGTCCA C	CCGTCTTCAC	CGTAAACCTT	GTAACCGTTA	AATGGAGCAG	GGTTGTGGCT	4080
GGCTGTGACC A	TGATACCTG	CGAAACAGTT	GAGATGACGA	ACTGCAAATG	ATAGTTCTGG	4140
AGTCGGACGA A	GGCTTTCAA	ATACGTAAGA	TTTGATGCCG	TGTTTAGCAA	GAACTGCCGC	4200
AGATTCAAAG G	CAAACTCAG	GTGAGAAGTG	ACGGCTATCG	TAGGCAATTG	CTACACCGCG	4260
TTCTTTCTCG T	TTCCACCTT	TTGACTCAAT	CAAACGAGCC	AATCCTTCAG	TAGCTTGGCG	4320

			856			
AACAACGTAG	ATGTTGATAC	GGTTTGTACC	AGCACCAACC	AAGCCACGCA	TACCTGCAGT	4380
ACCAAATTCA	AGATTTGTAT	AGAAGGCATC	TTCCTTAGTT	TTTTCGTCCA	TATTTTCCAA	4440
ATCTTGACGA	AGGTAGTCAC	GAAGCTCCAC	AAAATCAACC	CATTTCTGGT	AATTTTCTTG	4500
GTAAGACATT	CAAATTCTCC	TTTATTTTA	AAACATTTAA	TCAGTTTAAT	TATATCATTT	4560
TTTTTAGTTT	TAGTAAAACC	TTATCTGCTT	CGAACATCTC	TTCAAACCAG	GTCAGATTGA	4620
ATTTTGGGGT	TATATGATGT	TGAGGCTAGG	AAAAATTCAA	TTTCAGTAAA	AAAAGTAAGT	4680
CTTCTCATAA	CAAAACATTG	ATATAGTTAC	TTAGTTTTAA	ACAAGCATAT	TATAATAAAG	4740
CTATGGCATA	TAGTACTGAT	TTTAAACAGC	GAGCATTAGA	TTACATCAAA	GAGGGCACA	4800
GCCATGTCGA	GGCAGCCAAG	TTTTTTGGTG	TTGGCGTCAG	AACTCTCTTC	ACGTGGGAAA	4860
AGAAAGACGT	GAACAAGAAC	ACATAGAGAG	GAAAAAGCGA	GTCGTCAAAA	ACCGAAAGAT	4920
TCCTTTAGAG	GAATTGAAAG	CCTTTGTAGA	GGCTCATCCA	GATGCTTTTT	TACGGGAAAT	4980
TGCGGCACAT	TTTGATTGTG	CTGTTCCTTC	AGTATGGGCA	GCTTTAAAGC	AGATTAAGGT	5040
CACTTTAAAA	AAAGATGACG	AGCTTTAAGG	AACAAGACCC	AGAAAAGTAG	CCTTATTTCT	5100
TAAGAATTTT	AATAGTTTAA	AGCACCTAGC	ACCTGTTTAT	ATTGATGAAA	CAGGAATCGA	5160
CCGCTATCTC	TATCGTCCTT	ATGCAGGGGC	TCCTAGAGGG	GAGAAAGTCT	ATGAAAAGAT	5220
TAGCGGACGT	CGTTTTGAGC	GAACTTCAAT	TGTTGCAGGA	CAAGTAGACG	GAGAGTTTAT	5280
AGCTCCCATG	ATTTACAAGA	AAAGCATGAC	AAGCGATTTC	TTTGTGGAGT	GGTTCAAAAC	5340
GCAACTCCTA	CCTGCTTTGA	AGACACCTCA	TGTTATTGTC	ATGGGCAATG	CTGGTTTTCA	5400
TCCCAAGAAC	ATTTTGGATG	AACTCTGCAT	CCAAGATAAA	CACTTTTTCT	TACCTCTACC	5460
ACCTTATTCA	CCGGATTTGA	ATCCTATTGA	GCAAGCTTGG	GCTATCTTGA	AAAAGAAAGT	5520
GACGGATGTA	TTAAGGGAAG	TTCCAACTAT	TTTTGAATGT	TTGGAATGCT	TTTTTAAAAC	5580
TAGATGACTA	TAACGGTTCT	AAAGGAACCT	ATCGAGTAGT	CATTAAAACT	AAGGATACTG	5640
CTGGTTAAGA	GAAGACGGTA	TACAATCAAA	CCATTCACCG	TGTAGCCGAA	ATCGTTCAGA	5700
ATGAAGACTT	GTATCAGAAT	GAAGACTTGT	ATAAGAAAGG	TTTGAATGTT	GAACTTGCGC	5760
ACCAACAAAT	TAAGGGATTT	TTTGAAGCAG	AGTTTAAAAA	TCGTATTAAT	GGAGTTCTTA	5820
АТАСТААААТ	AAAAAATAGT	ACATTAAATC	GTGTAAATAA	АААААСТАТА	CACCAGAGCA	5880
ACAAAAACTC	CATGATCAAT	TTGAAGCAGA	AGCAACGGAA	GATGCTAAAA	AACAAGGCGA	5940
PATTGTGTTG	AATGTTGACC	AGGATTTCAT	GAGCATATCT	AAGTCTAATA	AAAGTGGTTC	6000
AGACTGGAAG	AAAACTTTCA	CAGTGAGGAT	AACCAATAGG	CTAGCAAATG	ACTTGAATAA	6060
rgtcttg <b>a</b> aa	CAGGTTGATA	AAGATACTCC	TAATACCCCA	ACTTGGCTAA	ACTCAGCTGC	6120

TTCTAAAGCT	AAAGATGATG	ACAGAGTATA	TAAACTACTG	AAGACTCTTA	TACCAGGAGA	6180
AAATTACCTA	TCATGTTAAG	GATAATCAGC	TAGAAGTAGA	AACAGATAAA	TACACATATA	6240
CTGCCGCTAG	AAATGGTAGT	AAGGAAGTTG	GTATTCAAGA	GTCAGATATA	GCAGCAACTC	6300
TAAGTGCCGA	TGAATATAAT	TCTAATCGCC	AAACTTTTGA	GAGAGAATAC	AAATACAAAA	6360
GCAAATGCCC	TTAATAATGG	TTGGGCTAGA	TCTGGTTCTG	AAGAGTTCAA	AAAGTTCTCC	6420
CACTTTGTAG	GGGTAGACAA	AGGGATTGTG	CGAACGAATG	TACTGACTGG	ТААААААСТА	6480
TCTGATAAGA	TTAGGAAAGA	AGTGGGCTCT	GGAGATAGCA	AACTAGGAAA	AGGCGGCTAT	6540
TTCTCTACTG	GGGATGTTCT	ATTAGGAAAA	GATGTTGTTT	CTTATACCGT	ACAAGTATTT	6600
TCAGAGAATA	ATGAAAGAGT	AGGAGTAAAC	ACTCAAAGTC	ACCGTGTTCA	GTATAATCTC	6660
CCAATTCTAG	CTGACTTTTC	AGTCATCCAA	GATACTGTGG	AACCATCACG	AACCGTTGTT	6720
GAAAAAATCA	TTCCAAAACT	AAATATTCCC	GAAGAAGAGA	AAGGGAAAAT	AACCGAAGAA	6780
ATCAAGAAAA	AGAAAAAAAC	CTCAGAATTG	GCAGAACTAA	TCTCAGAAAA	TGTGAAAGTT	6840
CGCTATGTTG	ATGAACAAGG	GCGTTTGCTA	TCATTGAAAA	ATGATACTGG	AATTGGAGAA	6900
AAAGAAAGTG	ACGGAACCTA	CATTACCAAT	AAAAAACAAC	TGATTGGTAC	CAGCTATAAT	6960
GTCACAGATA	AAAAACTCAG	TAGCATGACT	ACTACTGACG	GAAAATATTA	TACTTTTAAA	7020
GAAGCAGATA	CAAATTCTGC	AAGTTTAACT	GGGAATATTG	TAAGCGAAGG	TAGAACAGTG	7080
ACCTTAGTTT	ATAGAGAAAG	CGAAGCGCCA	ACCACTGCTA	CAGTAACAGC	CAATTACTAT	7140
AAAGAAGGTA	GGCAAGAGAA	GTTGGTAGAG	TCTGTTATAA	AAGCTGATTT	AGCGATAGGT	7200
TCTGAGTATA	CCACAGAATC	AAAAACTATT	GAAGGGAAAA	CAACAACTGA	GGACAAAGAA	7260
GACCGAGTTA	TCACAAGGAA	AACAACATAC	ACCTTGGTAG	CAACTCCTGA	AAATGCGTAC	7320
CAGAAGACGG	TGCAACAGTT	GACTATTACT	ACCGTGAGAA	TGTTGAGGAA	ACAGTGGTTC	7380
CCAAAACAGC	AACCTCTACT	GAGACGAAGA	CTATAACGCG	TATCATTCAT	TACGTTGATA	7440
AAGTTACGAA	CCAAAATGTA	AAAGAAGATG	TTGTTCAACC	TGTAACCTTA	AGCCGTACAA	7500
AAACTGAGAA	CAAGGTCACG	GGAGTTGTAA	CCTACGGTGA	ATGGACAACA	GGAAACTGGG	7560
ACGAGGTTAT	ATCTGGTAAG	ATTGACAAGT	ACAAAGATCC	AGATATTCCA	ACAGTTGAAT	7620
CACAAGAAGT	TACGTCAGAC	TCTAGTGATA	AAGAAATAAC	GGTAAGGTAT	GACCGTTTAT	7680
CAACACCAGA	AAAACCAATC	CCACAACCAA	ATCCAGAGCA	TCCAAGTGTT	CCGACACCAA	7740
ACCCAGAACT	ACCAAATCAA	GAGACTCCAA	CACCAGATAA	ACCAACTCCA	GAACCAGGTA	7800
CTCCAAAAAC	TGAAACTCCA	GTGAATCCAG	ACCCAGAAGT	TCCGACTTAT	GAGACAGGTA	7860

			858				
AGAGAGAGGA	ATTGCCAAAC	ACAGGTACAG	AAGCTAATGC	TACCTTGGCT	AGTGCTGGTA	7920	
TCATGACCTT	GTTAGCTGGT	CTAGGATTAG	GATTTTTCAA	GAAAAAAGAA	GATGAAAAAT	7980	
AATAGATTTT	AGAATCTAGG	AACCAGGAAA	AGCTCACAGA	TGTGGGCTTT	TTTCCTGGTT	8040	
TTGAGAACGA	GGTCTTTCGT	AAAGAATAAA	AACGCTTACA	AGTCTGTTGA	ACTGGGAAAC	8100	
TATGAATCCT	ATTTTTTTAA	AAATATTTCC	AGAAATCAGT	TGCGG		8145	
(2) INFORMATION FOR SEQ ID NO: 123:							

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 8697 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CGGTACCGGG	AACGATACTT	AGTCTAATTT	TGCACCTTTT	CCATGTATGG	TAAAGGTTTT	60
TCTTTTTTTA	AAAAGGAAAA	CGAGAAGAGG	AGGTTCTTAT	GAAAGCAAGC	ATTGCCTTGC	120
AAGTTTTACC	CCTAGTACAG	GGGATTGATC	GGATAGCTGT	TATTGATCAG	GTCATTGCTT	180
ATCTGCAwAC	TCAAGAAGTG	ACGATGGTAG	TGACACCATT	TGAAACGGTC	TTGGAAGGGG	240
AGTTTGATGA	GCTTATGCGC	ATTCTAAAAG	AAGCGCTGGA	AGTGGCAGGG	CAGGAGGCAG	300
ACAATGTCTT	TGCCAATGTC	AAAATAAATG	TAGGAGAGAT	TTTAAGTATT	GATGAGAAAC	360
TTGAGAAGTA	TACTGAGACG	ACACATTAGT	CTATTGGGCT	TTCTCGGAGT	ATTGTCAATC	420
TGGCAGTTAG	CAGGTTTTCT	TAAACTTCTC	CCCAAGTTTA	TCCTGCCGAC	ACCTCTTGAA	480
ATTCTCCAGC	CCTTTGTTCG	TGACAGAGAA	TTTCTCTGGC	ACCATAGCTG	GGCGACCTTG	540
AGAGTGGCTT	TACTGGGGCT	GATTTTGGGA	GTTTTGATTG	CCTGTCTTAT	GGCTGTGCTC	600
ATGGATAGTT	TGACTTGGCT	CAATGACCTG	ATTTACCCTA	TGATGGTGGT	CATTCAGACC	660
ATTCCGACCA	TTGCCATAGC	TCCTATCCTG	GTCTTGTGGC	TAGGTTATGG	GATTTTGCCC	720
AAGATTGTCT	TGATTATCTT	AACGACAACC	TTTCCCATCA	TCGTTAGTAT	TTTGGACGGT	780
TTTAGGCATT	GCGACAAGGA	TATGCTGACC	TTGTTTAGTC	TGATGCGGGC	CAAGCCTTGG	840
CAAATCCTGT	GGCATTTTAA	AATCCCAGTT	AGCCTGCCTT	ACTTTTATGC	AGGTCTGAGG	900
GTCAGTGTCT	CCTACGCCTT	TATCACAACT	GTGGTATCTG	AGTGGTTGGG	AGGTTTTGAA	960
GGTCTTGGTG	TTTATATGAT	TCAGTCTAAA	AAACTGTTTC	AGTATGATAC	CATGTTTGCC	1020
ATTATTATTC	TGGTGTCGAT	TATCAGTCTT	TTGGGTATGA	AGCTGGTCGA	TATCAGTGAA	1080
AAATATGTGA	TTAAATGGAA	ACGTTCGTAG	AATTAGAATG	TTTCTGAAAA	AGAAAAGAGG	1140

AAATCAAAAT	GAAGAAAACA	TGGAAAGTGT	TTTTAACGCT	TGTAACAGCT	CTTGTAGCTG	1200
TTGTGCTTGT	GGCCTGTGGT	CAAGGAACTG	CTTCTAAAGA	CAACAAAGAG	GCAGAACTTA	1260
AGAAGGTTGA	CTTTATCCTA	GACTGGACAC	CAAATACCAA	CCACACAGGG	CTTTATGTTG	1320
CCAAGGAAAA	AGGTTATTTC	AAAGAAGCTG	GAGTGGATGT	TGATTTGAAA	TTGCCACCAG	1380
AAGAAAGTTC	TTCTGACTTG	GTTATCAACG	GAAAGGCACC	ATTTGCAGTG	TATTTCCAAG	1440
ACTACATGGC	TAAGAAATTG	GAAAAAGGAG	CAGGAATCAC	TGCCGTTGCA	GCTATTGTTG	1500
AACACAATAC	ATCAGGAATC	ATCTCTCGTA	AATCTGATAA	TGTAAGCAGT	CCAAAAGACT	1560
TGGTTGGTAA	GAAATATGGG	ACATGGAATG	ACCCAACTGA	ACTTGCTATG	TTGAAAACCT	1620
TGGTAGAATC	TCAAGGTGGA	GACTTTGAGA	AGGTTGAAAA	AGTACCAAAT	AACGACTCAA	1680
ACTCAATCAC	ACCGATTGCC	AATGGCGTCT	TTGATACTGC	TTGGATTTAC	TACGGTTGGG	1740
ATGGTATCCT	TGCTAAATCT	CAAGGTGTAG	ATGCTAACTT	CATGTACTTG	AAAGACTATG	1800
TCAAGGAGTT	TGACTACTAT	TCACCAGTTA	TCATCGCAAA	CAACGACTAT	CTGAAAGATA	1860
ACAAAGAAGA	AGCTCGCAAA	GTCATCCAAG	CCATCAAAAA	AGGCTACCAA	TATGCCATGG	1920
AACATCCAGA	AGAAGCTGCA	GATATTCTCA	TCAAGAATGC	ACCTGAACTC	AAGGAAAAAC	1980
GTGACTTTGT	CATCGAATCT	CAAAAATACT	TGTCAAAAGA	ATACGCAAGC	GACAAGGAAA	2040
AATGGGGTCA	ATTTGACGCA	GCTCGCTGGA	ATGCTTTCTA	CAAATGGGAT	AAAGAAAATG	2100
GTATCCTTAA	AGAAGACTTG	ACAGACAAAG	GCTTCACCAA	CGAATTTGTG	AAATAATGAC	2160
AGAAATTAGA	CTAGAGCACG	TCAGTTATGC	CTATGGTCAG	GAGAGGATTT	TAGAGGATAT	2220
CAACCTACAG	GTGACTTCAG	GCGAAGTGGT	TTCCATCCTA	GGCCCAAGTG	GTGTTGGAAA	2280
GACCACCCTC	TTTAATCTAA	TCGCTGGGAT	TTTAGAAGTT	CAGTCAGGGA	GAATTGTCCT	2340
TGATGGTGAA	GAAAATCCCA	AGGGGCGCGT	GAGTTATATG	TTGCAAAAGG	ATCTGCTCTT	2400
GGAGCACAAG	ACGGTGCTTG	GAAATATCAT	TCTGCCCCTC	TTGATTCAAA	AGGTGGATAA	2460
GGCAGAAGCT	ATTTCCCGAG	CGGATAAAAT	TCTTGCGACC	TTCCAGCTGA	CAGCTGTAAG	2520
AGACAAGTAT	CCTCATGAAC	TTAGCGGTGG	GATGCGCCAG	CGTGTAGCCT	TACTCCGGAC	2580
CTACCTTTTT	GGGCACAAGC	TCTTTCTCTT	AGATGAGGCC	TTTAGCGCCT	TGGATGAGAT	2640
GACAAAGATG	GAACTCCACG	CTTGGTATCT	TGAGATTCAC	AAGCAGTTGC	AGCTAACAAC	2700
CCTGATCATC	ACGCATAGTA	TTGAGGAGGC	CCTCAATCTC	AGCGACCGTA	TCTATATCTT	2760
GAAAAATCGC	CCTGGGCAGA	TTGTTTCAGA	AATTAAACTA	GATTGGTCTG	AAGATGAGGA	2820
CAAGGAAGTC	CAAAAGATTG	CCTACAAACG	TCAAATTTTG	GCGGAATTAG	GCTTAGATAA	2880

GTAGAAAAAT	AGGGAGTTGG	TGAAGATTAT	860 CCTTTACCAG	CGCCCTTTTT	CTTTTAAAAA	2940
TGAGAAAATT	TCGGTATAAT	AGTCAAACAA	GGTCAAGGTT	TAAAGAGAGA	GGTGGGTTTG	3000
		TCGGATCATA				3060
		CAACGGAGTC				3120
		AAGACACGCT				3180
		TACATTCGTA				3240
		TACTCGATTG				3300
		GAGCAGGAAT				3360
		GTTTTAGGAG				3420
		GTAGATAGAA				3480
		TGCCTACATG				3540
		TGCCATGTCT				
		GATGGACCGT				3600
						3660
		AACCTTTACG				3720
		TGTAGCGTCA				3780
CACGTCCTCT	ATGCGATTTT	GCATGATAGC	AATGCCTTGG	CGACTCGTAT	CTTGGAGAGG	3840
GCTGGTTTTT	CTTATGAAGA	CAAGAAAGAT	CAGGTCAAGA	TTGCTGCTCT	TCGTCGAAAT	3900
TTAGAAGAAC	GGGCAGGCTG	GACTCGTGAA	GATCTCAAGG	CTTTACGCCA	ACGCCATCGT	3960
ACAGTAGCTG	ACAAGCAAAA	TTCTATGGCC	AATATGATGG	GCATGCCGCA	GACTCCTAGT	4020
GGTGGTCTCG	AGGATTATAC	GCATGATTTG	ACAGAGCAAG	CGCGTTCTGG	CAAGTTAGAA	4080
CCAGTCATCG	GTCGGGACAA	GGAAATCTCA	CGTATGATTC	AAATCTTGAG	CCGGAAGACT	4140
AAGAACAACC	CTGTCTTGGT	TGGGGATGCT	GGTGTCGGGA	AAACAGCTCT	GGCGCTTGGT	4200
CTTGCCCAGC	GTATTGCTAG	TGGTGACGTG	CCTGCGGAAA	TGGCTAAGAT	GCGCGTGTTA	4260
GAACTTGATT	TGATGAATGT	CGTTGCAGGG	ACACGCTTCC	GTGGTGACTT	TGAAGAACGC	4320
ATGAATAATA	TCATCAAGGA	TATTGAAGAA	GATGGCCAAG	TCATCCTCTT	TATCGATGAA	4380
CTCCACACCA	TCATGGGTTC	TGGTAGCGGG	ATTGATTCGA	CTCTGGATGC	GGCCAATATC	4440
TTGAAACCAG	CCTTGGCGCG	TGGAACTTTG	AGAACGGTTG	GTGCCACTAC	TCAGGAAGAA	4500
TATCAAAAAC	ATATCGAAAA	AGATGCGGCA	CTTTCTCGTC	GTTTCGCTAA	AGTGACGATT	4560
GAAGAACCAA	GTGTGGCAGA	TAGTATGACT	ATTTTACAAG	GTTTGAAGGC	GACTTATGAG	4620
AAACATCACC	GTGTACAAAT	CACAGATGAA	GCGGTTGAAA	CAGCGGTTAA	GATGGCTCAT	4680

CGTTATTTAA	CCAGTCGTCA	CTTGCCAGAC	TCTGCTATCG	ATCTCTTGGA	TGAGGCGGCA	4740
GCAACAGTGC	AAAATAAGGC	AAAGCATGTA	AAAGCAGACG	ATTCAGATTT	GAGTCCAGCT	4800
GACAAGGCCC	TGATGGATGG	CAAGTGGAAA	CAGGCAGCCC	AGCTAATCGC	AAAAGAAGAG	4860
GAAGTACCTG	TCTACAAAGA	CTTGGTGACA	GAGTCTGATA	TTTTGACCAC	CTTGAGTCGC	4920
TTGTCAGGAA	TCCCAGTTCA	AAAACTGACT	CAAACGGATG	CTAAGAAGTA	TTTAAATCTT	4980
GAAGCAGAAC	TCCATAAACG	GGTTATCGGT	CAAGATCAAG	CTGTTTCAAG	CATTAGCCGT	5040
GCCATTCGCC	GCAACCAGTC	AGGGATTCGC	AGTCATAAGC	GTCCGATTGG	TTCCTTTATG	5100
TTCCTAGGGC	CTACAGGTGT	CGGGAAAACT	GAATTAGCCA	AGGCTCTGGC	AGAAGTTCTT	5160
TTTGACGACG	AATCAGCCCT	TATCCGCTTT	GATATGAGTG	AGTATATGGA	GAAATTTGCA	5220
GCTAGTCGTC	TCAACGGAGC	TCCTCCAGGC	TATGTAGGAT	ATGAAGAAGG	TGGGGAGTTG	5280
ACAGAGAAGG	TTCGCAATAA	ACCCTATTCC	GTTCTCCTCT	TTGATGAGGT	AGAGAAGGCC	5340
CACCCAGATA	TCTTTAATGT	TCTCTTGCAG	GTTCTGGATG	ACGGTGTCTT	GACAGATAGC	5400
AAGGGACGCA	AGGTCGATTT	TTCAAATACC	ATTATCATTA	TGACATCGAA	TCTAGGTGCG	5460
ACTGCCCTTC	GTGATGATAA	GACTGTTGGT	TTTGGGGCTA	AGGATATTCG	TTTTGACCAG	5520
GAAAATATGG	AAAAACGCAT	GTTTGAAGAA	CTGAAAAAAG	CTTATAGACC	GGAATTCATC	5580
AACCGTATTG	ATGAGAAGGT	GGTCTTCCAT	AGCCTATCTA	GTGATCATAT	GCAGGAAGTG	5640
GTGAAGATTA	TGGTCAAGCC	TTTAGTGGCA	AGTTTGACTG	AAAAAGGCAT	TGACTTGAAA	5700
TTACAAGCTT	CAGCTCTGAA	ATTGTTAGCA	AATCAAGGAT	ATGACCCAGA	GATGGGAGCT	5760
CGCCCACTTC	GCAGAACCCT	GCAAACAGAA	GTGGAGGACA	AGTTGGCAGA	ACTTCTTCTC	5820
AAGGGAGATT	TAGTGGCAGG	CAGCACACTT	AAGATTGGTG	TCAAAGCAGG	CCAGTTAAAA	5880
TTTGATATTG	CATAAAAGAA	TAAAAGTATC	AGCATCTGAC	CATAAGTCAC	AGTGGAGTGA	5940
AATTCAATGA	AAATCAAAGA	GCAAACTAGG	CAGCTAGCCG	CAGGTTGCTC	AAAACACTGG	6000
TTTGAGGTTG	CAGATAGAGC	TGACGTGGTT	TGAAGAGATT	TTCGAAGAGT	ATGAAACTAA	6060
AACCTATAGC	TTCTAAACGA	TCCGTGGTTT	TCATCATTCA	ACACAAAATT	CATATGTTTA	6120
TTACCCTCCG	TCGTATTTGT	CTTAGAGCGT	GTGTAGTAGA	AAAAGAGCAG	TCTTATCTGA	6180
AATTTTTATT	CTTTCAAAAG	AGACCTGTTT	CTTTTTTGCA	TGTCAAATCC	GTTCTAGCTG	6240
GTATTTGAAA	ААТСАААСТА	ATATTCAATG	AAAATCAAAG	AACAAACTAG	GAAGCTAGCC	6300
GCAGGTTGCT	CAAAACACTG	TTTTGAGGTT	GTAGATAGAG	CTGACGTGGT	TTGAAGAGAT	6360
TTTCGAAGAG	TATAAGCTGC	AAGATGAATG	ATTTTCTTGT	ATTGACGTTG	TTGTTGACAA	6420

AAAGTAGCGG	ATAAATGAAA	TCCATTCCAT	862 TATCATAGAT	GATAGGCTGG	TAGGAAATTT	6480
TCAAATAGCA	TACAGGAAAT	AGATGTATGG	AGTTCTGGTA	GTAGAAAGGG	AGAGAGATGA	6540
ACATTTTAGT	TGCAGATGAC	GAGGAAATGA	TTAGAGAAGG	AATTGCAGCA	TTTCTGACAG	6600
AAGAGGGTTA	TCATGTCATT	ATGGCTAAGG	ATGGACAAGA	GGTCTTGGAA	AAATTTCAAG	6660
ATCTCCCTAT	CCATCTCATG	GTACTGGATT	TAATGATGCC	TAGGAAGAGT	GGTTTTGAAG	6720
TGTTAAAAGA	ААТСААТСАА	AAGCACGATA	TTCCTGTCAT	CGTCTTGAGT	GCTCTGGGAG	6780
ATGAAACTAC	TCAGTCACAG	GTATTTGATC	TCTATGCTGA	TGATCATGTG	ACAAAACCTT	6840
TTTCTTTGGT	ACTGCTTGTC	AAGCGTATTA	AGGCGCTTAT	CAGACGTTAC	TACGTCATAG	6900
AGGATCTTTG	GCGATATCAG	GATGTAACAG	TGGATTTTAC	СТСТТАСААА	GCACATTATA	6960
AAAATGAAGA	AATTGATCTC	AAACCAAAGG	AATTACTGGT	ACTAAAGTGT	TTGATTCAGC	7020
ATAAAAATCA	AGTTTTAAGT	AGAGAGCAGA	TATTGGAAGA	AATTTCAAAA	GATGTAGCTG	7080
ATTTACCTTG	TGATAGGGTC	GTTGATGTCT	ATATTCGTAC	TCTTCGCAAA	AAATTAGCTT	7140
TAGATTGTAT	CGTGACTGTG	AAAAATGTTG	GGTATAAGAT	TAGCTTATGA	TAAAAAATCC	7200
TAAATTATTA	ACCAAGTCTT	TTTTAAGAAG	TTTTGCAATT	CTAGGTGGTG	TTGGTCTAGT	7260
CATTCATATA	GCTATTTATT	TGACCTTTCC	TTTTTATTAT	ATTCAACTGG	AGGGGAAAA	7320
GTTTAATGAG	AGCGCAAGAG	TGTTTACGGA	GTATTTAAAG	ACTAAGACAT	CTGATGAAAT	7380
TCCAAGCTTA	CTCCAGTCTT	ATTCAAAGTC	CTTGACCATA	TCTGCTCACC	TTAAAAGAGA	7440
TATTGTAGAT	AAGCGGCTCC	CTCTTGTGCA	TGACTTGGAT	ATTAAAGATG	GAAAGCTATC	7500
AAATTATATC	GTGATGTTAG	ATATGTCTGT	TAGTACAGCA	GATGGTAAAC	AGGTAACCGT	7560
GCAATTTGTT	CACGGGGTGG	ATGTCTACAA	AGAAGCAAAG	AATATTTTGC	TTTTGTATCT	7620
CCCATATACA	TTTTTGGTTA	CAATTGCTTT	TTCCTTTGTT	TTTTCTTATT	ТТТАТАСТАА	7680
ACGCTTGCTC	AATCCTCTTT	TTTACATTTC	AGAAGTGACT	AGTAAAATGC	AAGATTTGGA	7740
TGACAATATT	CGTTTTGATG	AAAGTAGGAA	AGATGAAGTT	GGTGAAGTTG	GAAAACAGAT	7800
TAATGGTATG	TATGAGCACT	TGTTGAAGGT	TATTTATGAG	TTGGAAAGTC	GTAATGAGCA	7860
AATTGTAAAA	TTGCAAAATC	AAAAGGTTTC	CTTTGTCCGC	GGAGCATCAC	ATGAGTTGAA	7920
AACCCCTTTA	GCCAGTCTTA	GAATTATCCT	AGAGAATATG	CAGCATAATA	TTGGAGATTA	7980
CAAAGATCAT	ССААААТАТА	TTGCAAAGAG	TATAAATAAG	ATTGACCAGA	TGAGCCACTT	8040
ATTAGAAGAA	GTACTGGAGT	CTTCTAAATT	CCAAGAGTGG	ACAGAGTGTC	GTGAGACCTT	8100
GACTGTTAAG	CCAGTTTTAG	TAGATATTTT	ATCACGTTAT	CAAGAATTAG	CTCATTCAAT	8160
AGGTGTTACA	ATTGAAAATC	AATTGACAGA	TGCTACCAGG	GTCGTCATGA	GTCTTAGGGC	8220

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ATTGGATAAG	GTTTTGACAA	ACCTGATTAG	TAATGCAATT	AAATATTCAG	ATAAAAATGG	8280
GCGTGTAATC	ATATCCGAGC	AAGATGGCTA	TCTCTCTATC	AAAAATACAT	GTGCGCCTCT	8340
AAGTGACCAA	GAACTAGAAC	ATTTATTTGA	TATATTCTAT	CATTCTCAAA	TCGTGACAGA	8400
TAAGGATGAA	AGTTCCGGTT	TGGGTCTTTA	CATTGTGAAT	AATATTTTAG	AAAGCTATCA	8460
AATGGATTAT	AGTTTTCTCC	CTTATGAACA	CGGTATGGAA	TTTAAGATTA	GCTTGTAGAC	8520
AGATTAGTTT	TTTATTAAAG	TTCATATAGG	GTTAACATAA	GTGTGTTATT	CTTTGTGTAG	8580
ATAAAAGAAA	GGATACTAAT	ATGGTATTAG	CGATTATTTT	AGTAACATTC	TTTATTCGAT	8640
TGATTTTTT	AAAGCGTTCG	ATAGAGAATG	AGAAACGAAT	CCTTAGCAAT	GGCGGGG	8697

#### (2) INFORMATION FOR SEQ ID NO: 124:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 4317 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

AACCATACAT ACGGCAAGGC AAAGCTGACG	GGGTTTGAAG	AGATTTTCGA	AGAGTATTAG	60
TTGCCTTTAA AGGCATCCAC CATCGTTTGA	AATTCTTCAT	TTGAGAGAGT	AATCCCTTTG	120
CCCATTTTAG TATGGTCTGG ACTCCAAGCA	CGAATATCAA	ACTTTGCAGG	GGCACCATTA	180
AAGCTCACAC GGTTAATTTC CTTGGTCCAA	CCTTTTTCGT	TTTCAGAAAG	AGTCAACAAG	240
TGCTCTTCGA TTTCAAATGT AAATTCTGCC	ATTTTCTTCT	CCTTTTTTAG	TTTCATTAGT	300
TTATTCGTAA AATCTTGTAG ATTTTAGGAA	AATTTTATAT	AATATTGATA	TAAAAGAAGG	360
GAGGCCAATA TGAGACATAA ATTCCAGCAA	GTTCTAAATA	AAATACATGA	TTTTTTAAAT	420
GGATATGACC AACCTGACCA GACTGAAACC	AACTCCCTTA	CAGCCACTAT	TGAAGAGGCT	480
ATCCAGAAAC AAACCGCTGT TCACCTTATC	TTGTCTGAGA	CAAGCTTTAC	AGGTGACATC	540
ATCAAATATG ATCAGCAAGG CCAGCAAATT	ATCGTGAAAA	ATTTTTCCAA	AAATGTGAGC	600
CGGATTATCC GTATAAGCGA TATTCAACGC	CTGCGATTTG	TCCCCTCAAC	TGTCCAAACA	660
GCCCAAAAAA ATAGATTTAA GAAAGAGTGA	GATGTAGTTG	CTTCATCCCA	CTCTTTTTTC	720
TTAGCGAATT TGTTCAAAAT GTAAATGAAC	TGCGATATGA	TCTCCATAAC	CACTTCTTTC	780
CAAGTCACGT TGTAAACGAT AGGAAATGTA	GTGTTCTGCA	ATGGTAATGT	AACCTGCGCC	840
CAATAAACGA TGTTCAACCA TAGATTGAAT	CATACTGATA	GTCGCACGTT	CCACCTTGGC	900

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TTCTTGTAAA	TCCAAAACTA	CCTTCTTAGT	GACTTGAGCA	AGATTTTGAC	GCAAATCATC	960
TGTCAAAACA	TAAACAGTTT	GGGCTGCCTT	CAAGATGGCT	TGGTAAATCT	TATCTGGATT	1020
AAATTCAGCA	ATTTCGCCAT	TACGTTTGAT	TACTTGCATA	GGTTTCTCCT	TTATTCTTTG	1080
TTTTCTTTGA	TTTCTGCCAG	CATTTTTTCT	TCTTCTACTG	TCAGTTGATA	ATGTTCAAGT	1140
AAATCCGGTC	TGCGCTCGTA	GGTTTTCTTT	AAACTCTCGT	ACAATCGCCA	CTGACGAATC	1200
TTTTCATGGT	GGCCACTCAT	CAATACATCT	GGCACGACCA	TGCCTCGATA	ATCATAGGGA	1260
CGTGTGTACT	GAGGATATTC	TAAAAGACCT	GAAGAAAAAC	TATCATCTTG	GTGGCTAGAC	1320
TCCTTGCCAA	TCACTTCTGG	AATCAGGCGA	ACTGTAGCAT	CAATCATGGT	CATAGCTGCC	1380
AATTCTCCAC	CAGTGAGGAC	ATAGTCACCT	AGGGAAATCT	CATCTGTTAC	CAAGGTCTTA	1440
ATGCGCTCAT	CATAACCCTC	ATAGTGCCCA	CAGATAAAGA	TTAGCTCTTC	CTCTTGAGCC	1500
AAATCTTCAG	CATAAGCCTG	ATCAAACTGC	TTTCCAGCAG	GATCAAGGAG	AATAACGCGC	1560
GGATTTTTCT	TTTCAATAGC	ATCAAAGGAA	TCGAAAATAG	GTTGTGCTCT	GAGCAACATG	1620
CCCTGACCGC	CTCCGTAGGG	CTCATCATCT	ACATGACGGG	CCTTTTCAGC	ATTTTCTCGA	1680
AAATTATGAT	ACTGGATATC	CAAGAGCCCT	TTTTCTCGAG	CCTTTCCAAC	GATTGAGTGC	1740
TCCAGTGGAG	AAAACATCTC	TGGAAAGAGG	GTTAAAATAT	CAATCTTCAT	CGTCTAACCC	1800
TTCTAAGATT	TCCACATCGA	CCCGTTTACT	TGGAATATCA	ACATTGAGAA	CCACTGGTGG	1860
GATATAAGGT	AAAAGCAAAT	CACGTTTGCC	TTTTCGTTTG	ACCACCCAGA	CATCATTAGC	1920
ACCTGGTTGC	AGGATTTCCT	TGATGGTTCC	AACCAAGCTA	TCACCCTCAT	AGACTTCCAA	1980
ACCGATAATC	TCGTGATAGT	AAAATTCACC	ATCGTCTAGG	TCATTCAAAT	CTTCCTCAGC	2040
GACCTTGAGA	CTGTATCCCT	TGTACTTTTC	GATAGTATTG	ATATGGTACA	TATCTTTGAA	2100
TTTAATAATG	TCAAAGTTCT	TCTGTTTACG	GTGGCTAGCG	ATGGTCACTG	TTTGGACAAA	2160
CTGATCTTTT	TCATCAAACA	AAACCAGCTC	AGCTCCTTTT	TTAAACCGTT	CTTCTGCAAA	2220
ATCCGTCACA	GACAAGACTC	GCATCTCCCC	CTGTAATCCC	TGCGTATTAA	CGATTTTCCC	2280
AACATTAAAG	TAGTTCATCT	TGTCTCCTGT	AATCTCCTTT	TTTCCATCTT	ATTCTAACAA	2340
TTCTCGAATA	ATAGCCGCAA	TTTTTCCGA	TTCTGACCAT	TGTAAATAAT	GGTGATTCCC	2400
TCCTAAAATG	AGTTTAGTAT	TGGAAGTCCA	ATATTCTGAT	TCTCTGTACT	CTTTTTCTCT	2460
ATAAGGCTGA	CAAAAAACAA	ATACAGGAAT	ATGAGCTTCT	ATAGATACAT	CCTCAAAATC	2520
TTCCTCAGTA	ATCTCTCCAG	ATATCTGAAA	TTCTGGATCT	TGATTTTCCA	ACTCTAAGCC	2580
TTTTTCTTGC	ATTAATTCCC	AGATTTTTTT	ATTCGTTTCA	GGACTAAATG	TTGCTTGAGT	2640
TAAGTTCTTA	AAATAAAGTT	CAGGACCACA	CTCGTCAATC	AGCCTCATCT	GCTCTTCCAT	2700

TTCTGGATAA	GGATTTTCTG	AAAAATCAGC	AAACATGACT	TTTTTAGTTG	TCGGTTCAAT	2760
TGCTACTAAA	GTCTGACGCT	TAATTGGTTT	CTCGAGTAAT	TTGCAAGCTA	AAATTCCACT	2820
CCAACTATGT	GCACAAAGTA	TATATTCAGA	AATTCCTAAT	TCTTCAAGTA	CTTCATAAAC	2880
CGCATCTGCA	AGATTATCTA	GATTTTTTCC	AGCTTGGTCA	TGAATCGGAC	TCCTACCTGT	2940
GTTCGGAAAA	TCAATTGTCA	AATAACCAAT	TGTAGGAGGA	GGTTTTTCAA	GTATAAGTGA	3000
AAAATTTTCA	TAACTTGGTA	GCAAACCTGC	TCCGTTTAAA	CAAACTAGCA	CTTTCTTTTG	3060
CTTTTGATAA	GTAACAGAGA	GGCTACCAAT	TTCTGTAGAT	ACTTCAAACC	TCTTCATAAA	3120
GAAATCCACT	GATTCTATAT	AATGAATTAT	TAAAAATCCT	TATCCTTTAT	TTTATCACGT	3180
TCCAAGGATT	TTCTCAAGTT	GGAGGAAGGG	GACAATATCT	CTACTTTCCC	TTCAATAATC	3240
CTTCCAAATT	ATGTTTATGT	TGGTAATTAA	TGGCTGCGGT	TTTGTCTTTC	TCAAAGACAG	3300
TCTTGGTAAG	GTCAATATGA	TTAATAGCTA	CGATTGCGAC	GGTGTAGTAA	ATGATATCAG	3360
CCAGTTCTCT	GGCAAGTTCC	TCGTTCGAAT	CCTATCCCTT	CTTTTCGACC	AGAGCGCCTA	3420
TTCAAAACCT	CGACTACTTC	TCCGACTTCC	TCCACTAACT	TCATAAAGAG	ACCTTCATCA	3480
GTCCGAGACT	GCTGTTAATG	TTCGATTAAG	TAGTCTTGGA	ATTGCCTAAA	CGTTCAATCT	3540
TTTATAGTAT	ATTGAAACTA	GAATAGTACA	CCTTTACTTC	TAAAACATTG	TTAGAAATCG	3600
ATTTGACTGT	CCTGATCGAT	TTGTCCTGTT	CTTGTTTCAT	TTTACTATAT	CTTCTATTCC	3660
ACACAAAAAA	GCGAGACATC	CGTCCCGCCC	TTCTTATTTT	TCGTCAATAA	CGATTCTTAC	3720
TTTTTTGTAT	TCAGTTGGGA	CAGAGTAGAC	AATCGTTCTT	ATCGCAGAAA	TAGTGCGACC	3780
CTTACGACCG	ATTACACGAC	CCACATCGCT	TTGATCAAGA	TTCAAATGAT	ATTCCAAAAA	3840
TTCTGGTGTA	TCCTCAATCT	TGATAGTTAA	GGCATCTGGT	TGTGAAATTA	AGGGTTTCAC	3900
AATCGCAATA	ATGAGATTTT	CAATCGTATC	CATCTGTCAA	CCTACTTTAA	ACTTATTTTG	3960
AAAATTTAGA	ATCGTGGAAT	TTTTTCAATA	CGCCTTCTTT	TGAAAGGATG	TTACGTACTG	4020
TGTCTGAAGG	TTGAGCTCCA	TTAGCCAACC	ATGCAAGAAC	GCGGTCTTCT	TTCAAAGTTA	4080
CTTGGTTTTC	AGCAACAAGT	GGGTTGTAAG	TTCCAACTGT	TTCGATGAAA	CGTCCGTCAC	4140
GTGGTGAACG	TGAATCTGCT	ACGTTGATAC	GGTAGAAAGG	TTTTTTCTTA	GAACCCATAC	4200
GAGTCAAACG	GATTTTAACT	GCCATTTTTA	AAGTCTCATT	TCTTTAATTT	TTTATTTCGG	4260
TGAAATAGCT	GAGCTATTTA	GCACATGTTC	TATTATAGCA	GATTTCTGGC	ATGTGTC	4317
401			_			

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 125:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4881 base pairs

866

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

AATTTATTTG	ACTGGAAATT	GTAGAGGGTT	CTCGAAATTT	CTTGAATGGT	TAAAATAAGG	60
ACAAGAGAAA	ACATGGATAT	CTATATCCTT	GTGCCAAAAA	AACCACTGCC	CTCCCCAGAC	120
CAACCTGAGG	AAAGCAGTGA	TTCTTATTTT	AGGAGTTAGG	AATGAATACA	CGAAATCAAT	180
TTAGCTGATT	ATTTTTTTTTT	TTTCAAGAAT	TCATCGTATT	GTTTTTGCAT	TTCGTTCAAT	240
ACTTTTTCGT	AGGCACCTTC	AGATTTCAAT	TTTTCCATCA	ATTCTGGAAT	CGCTTTATCT	300
GGGTCTACAG	TACCAGTGTT	GATAGCTGTA	TCAAATTGTT	GCATTGTGTT	AGCAATAGCT	360
GAGATTTCAG	ATTTCACATT	GTCAGTATTG	AAGATAAATC	CAAGCGCTGG	AGATTCTTTA	420
GCTTCTGCCA	ATTCTTTCTT	AGAATTTTCG	ATTTGTTGGT	CTGTAACGTT	TTCGTTGATG	480
TAAAGGATCC	AGTTGTTACC	AGTGTTCCAT	CCACCCATGT	GAGTGTTTCC	TTTGTAGCCA	540
TCAAGAACGC	GAACACGGTT	TTCTTTACCT	TCAATTTTTT	CCCAGTTCTT	GCCTTCTGGA	600
CCGTAAACAA	GACCGTTCAA	GAGTTCTGGG	TTCGTATTCA	AGAGGTTCAA	GATTTCCATT	660
GATTTTTCTT	TGTTCTTAGA	GTTGTTTGAG	ATGACAAAGT	TAGCAACTTG	TGTTGTTTGG	720
TTTTTCTTGA	TGAAGTTAGT	AATTGGTTTG	ATTTGGATAT	CTTTGTTGGC	AACACGTGAA	780
AGCAAGCTGT	TACCGTAGTC	AGCTGGTCCT	ACTGTTTCTT	CACGAACGAA	CCAAGTATCT	840
TGTTGAAGGT	CAAAGGAAGT	ATCGCTTGTT	GCGACGTCTT	TTGGAATGTA	GCCAGCTTCA	900
TAGAATTTGT	GAAGAGTCTT	CAAGTGTTCT	TTGAAACGAG	GCACTTCGTA	ACGGTTTACA	960
ACTTTAGTAG	TATCGCCTTC	AAGGTCGATA	ACGAATGGAA	GACCGTTTGC	TACTGGGTAG	1020
TCAAAATTAT	CAGATGGGAT	GAAAACTTTA	CCAATAGCAA	ATGGTACTAC	GTCTGGAGCT	1080
TTTTCTTTGA	TTTGTTTCAA	GACTGGCTCA	AGAGTTTCGT	AAGAAGTAAC	ACCTGAAATA	1140
TCGATACCAT	ATTTAGCAAG	GAGAGTTCCG	TTGAAGGCAA	AGTTTTGAGA	TGATGCAACG	1200
TTGGCTGCAA	CTGGAACAGC	GTAAATCTTA	CCATTTACAG	TATTACCCTT	GATGTAAGCT	1260
GGGTCAAGTG	CTTTGTAAAG	GTCTTTACCT	TCTTTTTTGT	ACAATTCTGT	CAAGTCAGCG	1320
TAAGCACCTT	TTTGAGCATT	TACAATATAG	TTATCTGCAA	AGGCAATATC	ATAGTTTTCA	1380
CCAGATGATG	TGATAACTGA	САТТТТСТТА	CCATAGTCAC	CCCAGCCAAG	GTATTGGATA	1440
TCCAATTTGG	CACCAACTTT	TTCTTCAATG	ATTTTGTTGG	CATTTGCTAA	CAATTCATCC	1500
AAGTTGTCTG	GTTTGTCACC	GATTTGGTAC	ATTTTGATAA	CAGGTTTGTC	ACCTGAATCA	1560

GCAGCTTTTT	TGCTGTTACC	TGTCAAATTT	CCACAAGCAG	CAAGACCTGC	AGCCAGAGCG	1620
ACTACACTAG	CAGATGCAAA	AGCATATTTT	TTCCAGTTTT	TCATGATAAA	AACTCCTTTT	1680
TTTATTTTTA	AACTTATAAA	CAATGTAATG	ATCTTATACT	СААТААААТ	CAAAGAGCAA	1740
ACTAGAAAAC	TAGCCGCAGG	CTGCTCAAAG	CACTGCTTTG	AGGTTGTAGA	TAAGACTGAC	1800
GAAGTCAGTT	ACATATATCT	ACGGCAAGGC	GACGTTGACG	CGGTTTGAAT	TTGATTTTCG	1860
AAGAGTATTA	ACTTCACACA	AGGGAAGTTG	GGAACTGAGA	AATGTTATTT	CTCAATAAGC	1920
ACTATTCTTT	CACACCACCG	ATAGTCAAAC	CTTTTACAAA	GTAGCGTTGG	AAAAATGGAT	1980
ACAAAATCGC	GATTGGAAGG	GTTGCAACCA	CAACCATGGC	CATACGACCT	GTTTCTTTCG	2040
GTAGAGCAAC	TCCCAGTTGA	CCAATCAAGC	CGACCGCTTT	GGCAATGTAG	TCCATATTTT	2100
GTTGGATTTG	CATGAGCAAA	TATTGCAATG	GATACAAGTT	GTCACTCTTG	ATGTAAAGAA	2160
GGGCGTTGAA	CCAGTCATTC	CAGAAACCAA	GAGCTGTTAA	GAGCGTGATG	GTTGCGATAC	2220
CTGGTAGTGA	CAATGGCAAA	CAGATTTGGA	AGAAAATCCG	GGCCTCACTG	GCACCATCGA	2280
TACGAGCCGA	TTCTAGAATG	GCTTCTGGAA	TGGTCTTCTT	GAAGAAGGAA	CGCATCAAGA	2340
TGATGTTAAA	TGGTGAGAGA	AGCATTGGAA	CAATCAAGGC	CCAAACAGTG	TCACCAAGCT	2400
GAAGTACACG	GGTCACCATG	ATATAACCTG	GTACCAAACC	AGCGTTGAAC	AACATACTGA	2460
GAAGGACGAA	GATGGTAAAG	AATCTGCGAT	ACTTAAAGGT	TGTCCGTGAA	ATAGCGTAGG	2520
CATAGGTTGT	TGTGATAAAG	ACATTTGTCA	ATGTCCCAAC	TACGGTTACA	AAGACAGAGA	2580
TGAAGAGGGC	TTGTAGGATT	TTATCCTTAA	ACTGTGCCAA	AAACTCAAAA	CCGTCTAAGC	2640
CAAATTGGGA	TGGGAAGAAG	CTATAGCCGT	ATTGGAGGAG	GCTTTTCTCG	TCTGTCACTG	2700
AAATAATGAT	AACGAATACA	AAAGGTAGGA	TACAAGAGAG	GGCAATCAAA	CCCGAAATGA	2760
TACTGAAGAA	GATATCTGCT	TTCTTACTGA	AGGAGTGAAT	GCCGACATTA	TCAATTTTTT	2820
CTTTTTTAAT	TTTCTTTTTT	GCCATATTCT	CCTCCTTTCT	AGAACAAAGC	TGAGTTTGGA	2880
TCGACTCGTC	TTGCAAGCAA	GTTTGATAGG	ATAACCAGAA	TCAAACCAAC	AACGGATTGG	2940
TAAAGACCGG	CTGCTGCAGC	CATACCGATA	TCTGCTGTCT	GAGTCAAACC	ATTAAAGACA	3000
TATACGTCCA	AAACGTTGGT	TACATTGTAA	AGCTGACCAG	CATTGTGTGG	GATTTGATAG	3060
AAGAGACCGA	AGTCTGCGCG	GAAGATATTT	CCGACTGCAA	GGATGGTCAA	TACAGTTACA	3120
AGCGGAGTCA	ACTGAGGAAT	GGTTACGTTG	CGAATACGTT	GCCACTTGCT	AGCTCCGTCC	3180
ACTGTCGCTG	CTTCGTAGTA	GGTTGGATCA	ATTCCCATGA	TCGTCGCATA	GTACATGACA	3240
CTGCTATATC	CAAAGCCTTT	CCAAATACCT	AGGAAAAGTA	GGAGATAGGG	CCAGATGCCC	3300

868 AGGTCAGCGT AGAAATTGAC TTCTTTGAGA CCAAGACTTT CCAATAGATG ATTGAACACC 3360 CCTTTATCAA TATTTAGGAA GGCATCTGTA AAGAAACTGA TGATAACCCA AGACAAGAAG 3420 TAAGGGAACA ACATAGAAGT TTGAAAAATC TTCACCATTC TCTTAGAACG GAGCTCGCTG 3480 AGGATAATGG CAATCCCTAC AGATACAACT AAACCTAGAA AGATAAAGCC AAGATTGTAG 3540 AGGACAGTAT TTCGTGTGAT AATAAAGGCG TCTCTTGAAC TAAATAAGAA TCTAAAATTA 3600 TCGAGTCCGA CCCATTTACT ATTTATGATA CTATCTATGA AACCATTACT GGTCATGTGG 3660 TAGTCTTTGA AGGCAACCAC GTTCCCAAAT ACTGGAATGT AAAAGAATAG AATCAACCAG 3720 AGTGCCCCTG GCAAAACCAT CAAGAGAAAG ATCCAGTTGT CTCTCAATGT TTTTGAAAAC 3780 TTTTTCATAA TTTCCTCCCT TTTTATTTTG ATATCCATCT AAAAATTCTT TTTTAGACTT 3840 TTGATAACGA TTACATTATT AGTATACTCC TATTTGCAGG TTAGGTTAAA CTCCTAATTA 3900 TAGAAAAAC TCCACAAATT ATGTAGCAGA TTTAAAACTT TATCACCACT ATCAAACAAA 3960 TGTCCTAAAT CAATTGTTTA TTTTATCTCT ATTAGCCCAG TGATGGCGTC ACTCTGTTAT 4020 AAGCATCCAA CAACGGGGTA TACTGAAAAA TCTCCAGACT AGGGAACTCA GCGATAGTTC 4080 CTAATCTGGA GATTTTTAAT ATGTTATTAG GCGTTTGCTT TCAACTTAGC AATAACCTCT 4140 TTAAGATTAT CAATCAACTC TGCTGCAGTA TGCTCAGAGC CTTTTTCATC TGCCAAGAAC 4200 AAAACTGCTT TTTGAAGTTC TTTTTGAGAG TTTTCAAGGA CATCCTTATC TACTGTTTCA 4260 AGGTTTGAGT CTTTAAGAAG TTTACTTAAT TCCTTGGCTA ATTTCTTGAG TTTGATTTGC 4320 AGACTCATCT TCTCCTGCTG TTTCTTTGCC CGCTGTTTGT CCTCCATCCT TAGTTGCTGA 4380 CTGGCTTTCC TTAATGGACT CTAGGGAAGC AATGGCATCT TTGACTGTTT GCAAGATATC 4440 ACGTAAACCT TGCTCTGTCA AACTATCATC TGCAAAAGCT TTATTAGCCT CTGCCAAAAC 4500 CAGACGTGCT GAATCTGTGG TAGGATTCGA TACACCTGTC AATGATCTCA AAAGATTTTC 4560 TAAGGTTTGA GTCTGCTTAC TAATACTAGA CTAAAATCAA AAAGTATTAT ATAACAGTGA 4620 TATGAAATCA ACTAAAGAAG AAATCCAAAC CATCAAAACA CTTTTAAAAG ACTCTCGTAC 4680 AGCTAAATAT CATAAACGCC TTCAAATCGT TCTATTTTGT CTGATGGGCA AATCTTATAA 4740 AGAGATTATA GAACTTTTAT AGTAGTTTGA AATAAGATGT GAACATCTCT ATCAGGAAAG 4800 TCAAATTAAT TTATAGAAAT ATTTTAGCAG CCAAGGTGTA CTGTTATAGA TTCAATACAC 4860 TATACTTGGT GGTTTAGCTC G 4881

(2) INFORMATION FOR SEQ ID NO: 126:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:

<sup>(</sup>A) LENGTH: 13121 base pairs

<sup>(</sup>B) TYPE: nucleic acid

869

- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

AGGATCCCCG GAAAAGGAGA	CTAAAAATGA	AGAAAAAATT	TCTAGCATTT	TTGCTAATTT	60
TATTCCCAAT TTTCTCATTA	GGTATTGCCA	AAGCAGAAAC	GATTAAGATT	GTTTCTGATA	120
CCGCCTATGC ACCTTTTGAG	TTTAAAGATT	CAGATCAAAC	TTATAAAGGA	ATTGATGTTG	180
ACATTATTAA CAAAGTCGCT	GAGATTAAAG	GCTGGAACAT	TCAGATGTCC	TATCCTGGAT	240
TTGACGCAGC AGTCAATGCG	GTTCAAGCTG	GGCAAGCCGA	CGCTATCATG	GCAGGGATGA	300
CAAAGACTAA AGAACGTGAA	AAAGTCTTCA	CCATGTCTGA	TACTTACTAT	GATACAAAAG	360
TTGTCATTGC TACTACAAAG	TCACACAAAA	TTAGCAAGTA	CGACCAATTA	ACTGGCAAAA	420
CCGTTGGTGT TAAAAACGGA	ACTGCCGCTC	AACGTTTCCT	TGAAACAATC	AAAGATAAAT	480
ACGGCTTTAC TATTAAAACA	TTTGACACTG	GTGATTTAAT	GAACAACAGC	TTGAGTGCTG	540
GTGCCATCGA TGCCATGATG	GATGACAAAC	CTGTTATCGA	ATATGCCATT	AACCAAGGTC	600
AAGACCTCCA TATTGAAATG	GATGGTGAAG	CTGTAGGAAG	TTTTGCTTTC	GGTGTGAAAA	660
AAGGAAGTAA ATACGAGCAC	CTGGTTACTG	AATTTAACCA	AGCCTTGTCT	GAAATGAAAA	720
AAGATGGTAG TCTTGATAAA	ATTATCAAGA	AATGGACTGC	TTCATCATCT	TCAGCAGTGC	780
CAACTACAAC TACTCTCGCA	GGATTAAAAG	CTATTCCTGT	TAAGGCTAAA	TATATCATTG	840
CCAGCGATTC TTCTTTTGCC	CCTTTTGTTT	TCCAAAATTC	AAGCAACCAA	TACACTGGTA	900
TTGATATGGA ATTGATTAAG	GCAATCGCTA	AAGACCAAGG	TTTTGAAATT	GAAATCACCA	960
ACCCTGGTTT TGATGCTGCT	ATCAGTGCTG	TCCAAGCTGG	TCAAGCCGAT	GGTATCATCG	1020
CTGGTATGTC TGTCACAGAT	GCTCGTAAGG	CAACTTTTGA	CTTCTCAGAA	TCATACTACA	1080
CTGCTAATAC CATTCTTGGT	GTCAAAGAAT	CAAGCAATAT	TGCTTCTTAT	GAAGATCTAA	1140
AAGGAAAGAC AGTCGGTGTT	AAAAACGGAA	CTGCTTCTCA	AACCTTCCTA	ACAGAAAATC	1200
AAAGCAAATA CGGCTACAAA	ATCAAAACCT	TTGCTGATGG	TTCTTCAATG	TATGACAGTT	1260
TAAACACTGG TGCCATTGAT	GCCGTTATGG	ATGATGAACC	TGTTCTCAAA	TATTCTATCA	1320
GCCAAGGTCA AAAATTGAAA	ACTCCAATCT	CTGGAACTCC	AATCGGTGAA	ACAGCCTTTG	1380
CCGTTAAAAA AGGAGCAAAT	CCAGAACTGA	TTGAAATGTT	CAACAACGGA	CTTGCAAACC	1440
TTAAAGCAAA CGGTGAATTC	CAAAAGATTC	TTGACAAATA	CCTAGCTAGC	GAATCTTCAA	1500
CTGCTTCAAC AAGTACTGTT	GACGAAACAA	CGCTCTGGGG	CTTGCTTCAA	AACAACTACA	1560

870 AACAACTCCT TAGCGGTCTT GGTATCACTC TTGCTCTAGC TCTTATCTCA TTTGCTATTG 1620 CCATTGTCAT CGGAATTATC TTCGGTATGT TTAGCGTTAG CCCATACAAA TCTCTTCGCG 1680 TCATCTCTGA GATTTTCGTT GACGTTATTC GTGGTATTCC ATTGATGATT CTTGCAGCCT 1740 TCATCTTCTG GGGAATTCCA AACTTCATCG AGTCTATCAC AGGCCAACAA AGCCCAATTA 1800 ACGACTTTGT AGCTGGAACC ATTGCCCTCT CACTCAATGC GGCTGCTTAT ATCGCTGAAA 1860 TCGTTCGTGG TGGTATTCAG GCCGTTCCAG TTGGCCAAAT GGAAGCCAGC CGAAGCTTGG 1920 GTATCTCTTA TGGAAAAACC ATGCGTAAGA TTATCTTGCC ACAAGCAACT AAATTGATGT 1980 TGCCAAACTT TGTCAACCAA TTCGTTATCG CTCTTAAAGA TACAACTATC GTATCTGCTA 2040 TCGGTTTGGT TGAACTCTTC CAAACTGGTA AGATTATCAT TGCTCGTAAC TACCAAAGTT 2100 TCAAGATGTA TGCAATCCTT GCTATCTTCT ATCTTGTAAT TATCACACTT TTGACTAGAC 2160 TAGCGAAACG CTTAGAAAAG AGGATTCGTT AATGGCAAAA TTAAAAATTG ATGTAAATGA 2220 TTTACACAAG CACTATGGAA AAAATGAAGT CCTAAAAGGA ATTACGACTA AGTTCTATGA 2280 AGGAGATGTT GTTTGTATCA TCGGTCCTTC AGGTTCTGGT AAGTCAACTT TCCTCCGTAG 2340 CCTCAATCTT TTAGAAGAAG TCACTAGCGG TCACATCACT GTGAACGGCT ATGATTTAAC 2400 TGAAAAAACA ACCAATGTTG ACCACGTCCG TGAAAATATC GGCATGGTAT TCCAACACTT 2460 CAACCTCTTC CCTCATATGT CTGTATTGGA CAACATCACC TTTGCTTCCTA TTGAGCACAA 2520 GTTGATGACT AAGGAAGAAG CTGAGGAATT GGGAATGGAG TTGCTTGAAA AGGTTGGACT 2580 AGCAGATAAA GCTAATGCCA ATCCAGATAG CCTATCAGGT GGTCAAAAAC AACGTGTGGC 2640 CATCGCTCGT GGCCTAGCAA TGAATCCAGA CATCATGCTC TTCGATGAAC CAACTTCTGC 2700 CCTTGACCCT GAGATGGTTG GAGACGTACT TAACGTTATG AAGGAATTGG CTGAGCAAGG 2760 CATGACCATG ATTATCGTAA CCCATGAGAT GGGATTTGCT CGTCAGGTTG CCAACCGCGT 2820 TATCTTTACT GCAGATGGCG AGTTCCTTGA AGACGGAACA CCTGACCAAA TCTTTGATAA 2880 CCCACAACAC CCTCGTCTGA AAGAGTTCTT AGATAAGGTC TTAAACGTCT AAACTCAAAC 2940 TGTAAGGATT TCCTTGCAGT TTTTCTACCT CGTATTGGAA TTTTTTGATTT TTCGGAAAAT 3000 TATGTTAGAA TTAAGTTTAT GAAATGAGGT TTCCTCATAC CTAGCAAGAC TAGGAATAAA 3060 AATAGAAATT AGGTAGCTAG ATGTCATCTA AGGTTATTGT TACAATTTTC GGTGCGAGTG 3120 GAGACCTGGC TAAACGCAAG CTCTACCCTT CCCTTTTTAG ACTATATCAA TCCGGCAATC 3180 TTTCCAAGCA CTTTGCCGTT ATTGGAACTG CCCGTAGACC TTGGAGTAAG GAATATTTTG 3240 AATCTGTAGT TGTCGAGTCC ATCCTTGATT TGGCAGATAG TACCGAGCAA GCCCAAGAAT 3300 TTGCTAGCCA CTTCTACTAT CAAAGCCATG ATGTCAATGA TTCGGAACAT TATATTGCTT 3360

TGCGTCAATT	ACAAGCTGAG	CTTAATGAAA	AATACCAAGC	TGAACACAAT	AAGCTCTTCT	3420
TCTTGTCTAT	GGCACCTCAG	TTCTTTGGAA	CCATTGCCAA	ACACCTCAAA	TCTGAAAACA	3480
TTGTCGATGG	CAAAGGTTTT	GAGCGCTTGA	TCGTTGAAAA	ACCATTTGGT	ACAGATTACG	3540
CAACTGCAAG	CAAGTTGAAT	GACGAACTCC	TAGCAACATT	TGACGAAGAA	CAAATTTTCC	3600
GTATCGACCA	TTATCTTGGT	AAGGAAATGA	TCCAAAGCAT	CTTTGCAGTT	CGCTTTGCAA	3660
ACTTGATTTT	TGAAAACGTT	TGGAACAAGG	ATTTTATCGA	CAATGTTCAA	ATTACCTTTG	3720
CGGAGCGCTT	GGGTGTAGAA	GAACGTGGTG	GCTACTATGA	CCAATCCGGT	GCCCTCCGTG	3780
ACATGGTCCA	AAACCACACT	CTACAACTTC	TTTCGCTCCT	CGCCATGGAC	AAACCAGCAA	3840
GCTTCACAAA	AGACGAGATT	CGTGCTGAAA	AGATTAAGGT	CTTTAAAAAC	CTCTATCATC	3900
CAACTGATGA	AGAACTCAAA	GAACACTTTA	TCCGTGGGCA	ATACCGCTCT	GGTAAGATTG	3960
ATGGCATGAA	ATACATCTCT	TATCGTAGCG	AGCCAAATGT	GAATCCAGAA	TCAACAACTG	4020
AAACCTTTAC	ATCTGGTGCC	TTCTTTGTAG	ACAGCGATCG	ATTCCGTGGT	GTTCCTTTCT	4080
TTTTCCGTAC	AGGTAAACGA	CTGACTGAAA	AAGGAACTCA	TGTCAACATC	GTCTTTAAAC	4140
AAATGGATTC	TATCTTTGGA	GAACCACTTG	CTCCAAATAT	TTTGACCATC	TATATTCAAC	4200
CAACAGAAGG	CTTCTCTCTT	AGCCTAAATG	GGAAGCAAGT	AGGAGAAGAA	TTTAACTTGG	4260
CTCCTAACTC	ACTTGATTAC	CGTACAGATG	CGACTGCAAC	TGGTGCTTCT	CCAGAACCAT	4320
ACGAAAAATT	GATTTATGAT	GTCCTAAATA	ACAACTCAAC	TAACTTTAGC	CACTGGGATG	4380
AAGTTTGTGC	GTCATGGAAG	TTGATTGACC	GTATTGAAAA	GCTCTGGGCT	GAAAATGGTG	4440
CCCCACTTCA	TGACTATAAA	GCTGGAAGCA	TGGGACCTCA	AGCCAGCTTT	GACCTACTTG	4500
AAAAATTCGG	TGCCAAATGG	ACTTGGCAAC	CAGATATCAC	CTATCGTCAA	GATGGTCGCT	4560
TAGAATAAAA	AAATTTCCTG	CAAGTTTATG	CcTTGCAGGA	TTTTTGCTTC	TGATTAGATT	4620
AAACCTTCCA	AGAGACCTTT	CATAAAGTTT	TCTGAGTTAA	ACTCTCCAAT	ATCATCGATT	4680
TTTTCACCAA	AACCAATCAA	TTTTACAGGA	ATATTGAGTT	CTTCACGAAT	GGCTAGAACC	4740
ACACCTCCTC	GAGCAGTTCC	ATCAATCTTA	GTCAAAACAA	TTCCCGTTAA	AGGTGTGATT	4800
TTCGAAAATT	CTTTGGCCTG	TACTAGGGCA	TTTTGACCTG	TTGATGCATC	AAGTGCCAAG	4860
AAGGTTTCAT	GTGGTGCTTC	TGGCACAACA	CGTTTGATAA	TACGACCAAT	CTTTTCCAAC	4920
TCAGCCATAA	GGTTATCCTT	ATTTTGCAGA	CGACCAGCAG	TATCAATCAT	GAGAATATCG	4980
ATACCTTCAG	TCACGGCACG	TTCCATACCA	TCAAAGACCA	CGCTGGCTGG	ATCAGCTTTT	5040
TCAGGTCCAG	TTACTACTGG	AACATCTACT	CGTCGGCCCC	ATTCAGCTAG	CTGAGCTACT	5100

872 GCACCCGCAC GGAAGGTATC TGCTGCAACC AGCATGACCT TCTTACCAGC TTGTTTGTAG 5160 CGGTGGGCTA GTTTTCCGAT AGAAGTTGTT TTCCCAACAC CATTCACACC AACAAAGAGC 5220 ATAACTGTCA AGTTATCTTG GAAGTGGATG CTTTCATCGT AGCTACCATC CTTTTCATAA 5280 AGCTCAACCA ATTTCTCAAT GATGACACGA CGAAGTACAT CAGGTTTCTT GGCATTTTCA 5340 AGCTTGGCTT CGTAACGTAG TTCCTCCGTT AAGTTAGAAG CGACTTGGAC ACCAACATCA 5400 CTCATAATCA GCAGTTCTTC CAGTTCCTCG AAAAATTCTT CGTCAACAGA GCGGAAGTTA 5460 GCAAAGAAGG CATTCAAGCG GGCACCGAAA CCTGTGCGAG TTTTCTTAAG ACTGCGGTCA 5520 TATTTTCCT GAACAGTTTC TTCTGTTTGA GGAGCTTCTG GTTCAAGCAC TTCAGAATTA 5580 TTTTCTTCTA CAGTTCCTTC GTGCTCAAGC TTCTCTTCCT CTGGTAATTC TTCTGAGTTT 5640 GGTAATTCTT CTATTTCTTC TTGAGAAACC CCTACAGCTG GCTCTGAATC CTGACTTTCT 5700 TCAACTGTGT CTTGGATTTC CTCTTCTTGG AACACAGCTT GTTCAACAAT TTCAACCTCT 5760 GCTTCTTCCT GAGAAACTTC CTCAACTTCT GTGAAGGTAG GATCAACATC TTCAGACAAA 5820 TCAAGATTTT CCAGAGCTTC TTTTACAACT TCTTCGATTT TAGGTTCTTC TTTTTTTCCG 5880 AATAGACGGT CAAACAATCC CATATCTTAG TTCTCCTTTA GCACATATTC TTCGATAGCC 5940 CAGGCGACAG CTTCCTCATC GTTGGTCATC GGCGTCACTA CATTTGCGGC TGCCTTTACT 6000 TCAGGAACAG CGTTTTGCAT AGCAACACCA AGACCTGCCC ATTCAATCAT AGAGAGGTCA 6060 TTGGCCTCGT CACCACAGC CATCACTTGA CTTTGGTCGA TTCCAAGATG GCTGATTAGT 6120 TTTGCCAAAC CTGTTGCTTT ATGAACATTC TTTGGTGACC ATTCTAGCAA CATTTCACGT 6180 GATTTAAAGA TTTCATATTG GTCAAACAAT TCTGGAGAAA TCTTCTGAAT GGCTGCATCC 6240 AAGGGTTCTT GAGCAAAGGC AGTCACGCAT TTGTTGTAGG TCATTTGACT AGATAAGTCT 6300 TCAAAGTCCA CTGGAACAAA GGTCAAAGCT GGATTGAATT TGGCATAAAG ACTTTCTTGG 6360 TCCGATTGGA TTTGATAAAC TGTTCCTTCT GAGATGGCAT CAAGAGGCAG TGATAATTTC 6420 TCTGTTTCTT CATACAAACG TGCCACATCA TCATATGAAA AGACTGTTTT ATCAAGGATT 6480 TCTCCTGTAT TTTTCTGAAC TAATCCACCA TTAAAAGTAA TGGTATACTC ATCTTCCTGA 6540 CCGTCAGTCC CTAACTCATG GAGAAAGAAA TCCATGGCTT TTAAGGGACG ACCAGTTGTC 6600 AATACGACCT TGATACCACG ATCACGCGCA gCTTGCAAGG TTTCCTTGGT ACGATCCGTC 6660 AGCCTTTTAT CAGTAGTCAG CAAGGTCCCG TCCAAGTCCA ATGCAATCAA TTTTATATCT 6720 GCCATTATAA GCCCTCCATA TAAGCTATAA CCGACCGTTC CTTATGGTGA CCAATCACAG 6780 TCTTTGCTAA TTCTAAAATT TCAGGTCGTG CATTTTCAGG AGCTACAGGA TGTCCCACAA 6840 CCTGCATCAT ATGTAAGTCA TTAAGATTGT CTCCAAAAGC CATGACCTGA TCCATTGTGA 6900

TACCAAGTTT TTTAACTAAT	TCAACAATGG	CCACTCCCTT	ATCGACATAG	TCCAGAACAA	6960
TATCAATGGA TTCAAAGCCA	GTTGTCATGG	CCTTAACACC	AGGAACGTTT	TCGTTTACCC	7020
AAGCCTCCCC ATCTTCCAGC	GTTTCTTCTG	TGAAGTTGGT	TGTAAATTTG	AAAATGTCAT	7080
CTGTGATATC TTCCAAACTC	GCTACTTTT	GGATATTTTC	ATTATAGTGC	TGACTCACTT	7140
TCAAATAGGT CTCATCAACC	GTATCTAGAA	CATATGAACC	CTTCTTACCC	GTCAAGAGCA	7200
GTTTATTGAT ATCTACATAA	GGTGAAGTTT	TCAGCTTTTC	AAAAGTTGCC	AGATAAAAGT	7260
CACGAGACAT AGTCGCTTCA	TACAAGTCCT	GACCTTGATA	CTCTACCAAA	CTGCCATTTT	7320
CCGCGATGAA AATAATGTCA	TCACGAACAC	CAGCAAATAA	TTTTTCTAGA	GACAGAAATC	7380
CCCGACCCGA AGCTACCGCA	AAGTAAATCC	CTTTTTCCTT	GTAGGAAACC	AAGAGAGACT	7440
TGAGACGATC CATATCAAAG	CGTCCATTCC	CATCTAGGAA	GGTTCCGTCC	ATATCCGTTG	7500
CTACTAGTTT AATTGTCATC	CTTCAATACT	TTCTAAATCT	TTTAACTTAA	CTGAAACAAT	7560
CTTTGAAACA CCCGATTCTT	GCATGGTCAC	TCCATAGATG	GAATCAGCCG	CTGCCATGGT	7620
TCCCTTACGG TGGGTTACGA	CGATGAACTG	GCTGTCCTTG	TCAAAGCGGT	TGAGGTAATC	7680
CCCAAAACGT TTAACATTGG	CTTCATCCAG	CGCAGCTTCC	ACCTCATCCA	AGATAACAAA	7740
TGGAATAGTC TTGACACGAA	TAATGGAGAA	GAGCAAGGCA	AGAGCCGATA	GGGCTTTTTC	7800
ACCACCACTC ATGAGATTAA	GAGACTGGAT	TTTCTTGCCT	GGTGGTTGGA	CAGAAATTTC	7860
AACCCCAGCT GTCAGCAAGT	CTCCTTCAGT	CAAAATGAGG	TCAGCCTGAC	CTCCACCAAA	7920
CATCTGCTTG AAGGTCACTT	TAAAGGACTC	ACGAATGACC	TCAAAGGTTG	ATTTAAAGCG	7980
TTCCTTGACC TCATCATTCA	TCTCTGTAAT	GGTCTCAAGG	AGCAGGTTTT	TCGCAGACAA	8040
AATATCATCA CGTTGGCTAT	TTAGGAAATC	CAGACGGTTG	TGAACTTCTT	CGTACTGTTC	8100
AATAGCGTCT AAATTGACAG	GACCCAGTGA	GCGTATAGCC	TTCTCTAAAT	CCTTAACTTC	8160
TTGCTCTGCC AGATTGAGAT	TTTCCAACTC	ATGCGCCTTT	TCTAAAGCTT	CTGTGTAGCT	8220
GATCTGGTAC TGGTCTGTTA	ATTGACTTTG	TAGATGGCGC	AAGCGCTCGC	TAACCTTTTC	8280
TTTCTTGGCT TCAGCACGAG	TTTGCTTGCG	AATCCACTCT	TCATTCTGCT	GGCGAGCCTG	8340
ATCCAAATGA CTAGCAATAT	CATCCAGTTG	ACCCTCAATA	TCATCCAACT	CAAACTGCTT	8400
GCGAATCAAA CCTTGTTGGA	GATTTGTTTT	TTGAGTTTTG	GATTCTTCCG	CCTGTTGACT	8460
GAGCAATTCT GTATCAACCT	TCTCAAGATT	ATCAATCTTT	TCTTGAAGAA	GGCGCTGGAT	8520
TTCCTCTTGT TCAAAATCAA	GATTGTCCAA	TTCCTTGCCT	AAGCGTTCAA	TATCAGCAAC	8580
TTCATAACGT TTTTGCCCTT	GCAGTTCTGT	CTTAAGCAAA	CGAGCTTGCG	CTAGCTCTTC	8640

CTGCAAGTTT	TGATAGCGTT	CTTGGATGGC	874 ATTTTTGTTA	GACTTAATCT	CTTCAATCTC	8700
AGCTTCCAGA	TTTTGCTTGT	CACTGGAGAT	TGCAGCAAGA	CGCTCTTGGC	AGTTTTCCTT	8760
ATCCGCTTGC	CAATCTCCCT	CGGAAAGACG	ATCTATTTCC	TCTTCTTGGA	GTTTCCAAAG	8820
AGTTTCCAGT	TCTTCAACTT	GCTGACTAGT	TTGCTGATAA	GCGAGGAACA	AGCCTTGCTC	8880
CTGAATACGT	GCCTGCTCTC	CTTGAGATTT	AATAGCTTCT	AATGACTCGG	TCAATCTGGC	8940
CATCTCATCT	TGCAAGGTCT	TCAAAGTCGC	CTCTTCTGAA	CCCAAGCTTG	CTTCTTCTTC	9000
AGCAATTTCT	TTTTGTAATT	GCTCCAGTTC	TGGCTTGATA	AAAATGCTGT	TATTCTGGCG	9060
ATTGGCACCA	CCTGCATAAG	AACCACCTGT	GCGCAACTCT	GTCCCATCCA	ATGTCACCAT	9120
ACGAACCTGA	TAACGAACTT	GGCGAGCTGC	TGCACGCGCA	TGTTCTACGG	TATCAAAGAT	9180
AGCCGTCGTA	GCTAGCAAGT	TCTTGAAAAT	GGCTTCCAGT	CTAGTATCAA	AAGTCACCAA	9240
CTCATCTGCC	ATCCCAAGGA	AACCTGGGCT	TACAGCGATA	GCATCTTGGT	TCTGACTAGA	9300
AATCGTACGC	GCCTTGATAG	TGGTCAAAGG	AAGAAAGGTT	GCACGACCGG	CTCTGTTCCG	9360
TTTAAGGAAG	TCAATAGCCT	TGGTTGCCGA	CTCTTCATCT	TCTACGATGA	TATGCTGGCT	9420
ACTTGCCCCT	AAGGCAATCT	CTAGGGCAGT	TTGATAATAA	ACATCAAAGG	TCAGATGCTC	9480
ACTGACTGCA	CCAATAATCC	CACCTAGGCG	ATCTTTTTCT	TGGAGAACAC	TCTTAACACC	9540
TGCATAAAAG	TTACTATGAT	TTCTCAGGAT	ATTTTCCAAA	CTTTGAGCTC	TGGCCTGCTT	9600
GTTTTTGAGA	TTATCCAGAC	GGTCAAAGAG	TTGGCTTTGT	TGAGCTTGAT	AGGAAGTTTT	9660
CTGCTCCTCT	TGCTCCTTGG	CAATAGCTTG	GTAGTCAGCC	AATAATTTCT	GAACCTGCTC	9720
CTTGGCAGTT	TCAAGCTCTT	CCTTTTGCTG	ACTAGCCTTC	TCTTTAGCTA	TAGCTAATTG	9780
CTCTTTCAGC	TTTTCTAGTT	GATCTGCTTG	TTTTTGAGAA	AGCTGACGAC	TATTTTCCAA	9840
CTCATTCTCA	ATACGGGTCA	ACTGGTTTGA	GACATCCGCT	TCTTCTTGTA	AAAGAGCTAC	9900
AAAGCGTTCA	CGTAAGAGCT	CAATCATCTG	ATCAGGATCG	TCTGAGAAAG	CCAGCAATTC	9960
AGCTTCTAAA	CGATTGAGTT	TTTGATTATT	TTGGACTAGA	TTTCCCTCTA	ACAGAGCTAA	10020
AGAGCTTTCT	TTATCAGACT	TTTCTTTGCT	GAGTGAATTT	CTCTTATCCT	CCAAAGCAGC	10080
CAAACGGGCT	TGTGCCTCCT	GTTGATTCAA	GGCCACTTGC	TCGGACTCCA	GTTTCGATAG	10140
GGCTAATTTT	CTTTCTAAAT	CACTAATCAG	ACTAGTCAAG	TCCATCAAAC	TGCCTTGGTC	10200
TTTGGCCATT	TCAGCCTGTA	AATCTTGGCG	TTGCTTTTTA	AGAGTTTGAT	TTTCTTCTTC	10260
TAATTTTTCA	CGCTTTTGGT	AATAACTCAT	CAAGAGTTCT	TGAACCTGAG	TCAACTCTTC	10320
TTCTGTCGAC	TCTAGTTCAG	CCTTATTTTC	CTTGATTTGA	GCAACCAGAA	CATCTAAATA	10380
AATAGCCTTA	CGTTGTCCTT	CCAAGTCTAA	AAACTTACGG	GCATTCTCAG	CTTGCTTCTC	10440

AAGAGGCTTG	ATTTGATTAT	CCAACTCGTA	GATAATGTCC	TCTAAGCGGT	CCAGATTATC	10500
CTGAGTTTGC	TGCAGTTTAC	TCTCGGTTTC	TTTTCTGCGA	GTCTTGTATT	TTAAAACTCC	10560
AGCAGCTTCT	TCAAAAATAG	CTCGTCGTTC	CTCAGGCTTG	GAATTAAAAA	TCTCCTCAAC	10620
CTTCCCTTGG	GAAATAATAG	AGAAGGAATC	TCGTCCCAAT	CCAGTATCCA	AGAAGAGGTC	10680
ATGAATATCA	CGCAGACGGA	CTTTCTTGCC	GTCAATCTTG	TATTCGCTAT	CTCCACTACG	10740
ATAGACATGG	CGTTCCACCC	TGATTTCTTG	ACCTGCATCC	TTGATAAATC	CGTCATGATT	10800
ATCCAGAGTC	ACAACTACAG	AAGCATAATT	GAGCGGTTTG	CGACTTTCGG	TTCCAGCAAA	10860
GATGATATCC	GGCATCTTGC	CCCCACGGAG	ACTCTTGACA	CTAGACTCCC	CCAAAGCCCA	10920
ACGCAGACTT	TCTGTAATAT	TGGACTTTCC	AGATCCATTG	GGTCCAACAA	CTGCCGTCAC	10980
ACCTTGGTCA	AAAACGACCT	TGGTCTTATC	AGCAAAAGAC	TTGAACCCCT	GAATTTCGAT	11040
TTCCTTTAAA	TACATGAATC	CAGCCCCTTC	TCAACGGCAT	TTTTGGCAGC	TTCCTGCTCT	11100
GCTAATTTCT	TAGAACGACC	TTGGCCTTGA	CCGATGCTCT	TACCTTCAAC	AAGAACTTCT	11160
ACATCAAAAA	CCTTATCGTG	AGCAGGCCCT	GTTTCAGAAA	TCACCTGATA	ACGAATAGCC	11220
ACATCACCAT	TGACCTGAAG	CAACTCTTGG	AGATGGGTTT	TATAGTCTGT	AATCATCTCA	11280
AACTCGCCTG	CTTCAACCTT	AGGAATCATG	ACTTGATAGA	TAAATTCCTT	GACCTTGGCC	11340
ACATCCTTAT	CCAAAAGAAG	GGCACCAAGA	AAGGCTTCAA	AGGCATCACC	AAGAATGGTG	11400
TCACGATTGC	GACCACCTGA	TTTTTCTTCC	CCTTTACCCA	ACTTGATAAA	CTGGTCAAAC	11460
TGGCAATCAC	GCGCAAAACC	AGCTAAACTC	TCCTCACGGA	CAATCATAGC	ACGGAGTTTT	11520
GATAGGTCAC	CTTCAGGCTT	TTTAGGATAT	TTTTTATATA	GATATTCTGA	AATCAATAAC	11580
TGTAGAACAG	CGTCTCCTAA	AAATTCCAAG	CGTTCATTGT	GTGAAATTTT	TAAGAGGCGG	11640
TGCTCATTGG	CATAACTCGT	ATGAGTAAAG	GCAGTTTCCA	GTAACTTTTT	GTCTGCAAAT	11700
TCGATTGCAA	AATGATTCTT	TAGTACAGTT	TGTAATTCTT	TCATACCAAC	CTCTTTCTAA	11760
CTGATAATAG	TCCTTTTTAT	TATATCAAAA	AAAGCCCCCT	GAGTCACTCT	AAAACGGGAC	11820
TGGAAAGCAT	TTGGGAATTC	TTTAGACAGA	GATTCTCAGT	TTTAGCGGCA	AATTTGGGTC	11880
AGGATAAAGA	AAAAAGCCCT	ATTAAAGGCT	TTTTAGGATG	TTTACATCCA	CCCTGAGGGA	11940
ATCGAACCCC	CATCTCAAGA	ACCGGAATCT	TACGTGATAT	CCATTACACT	AAGGGTGGAA	12000
ACTTGTTTTA	TTATAACAGA	AATTTGCTCT	AATAACAAGT	TTTTTGGTCA	AAGACCCCGT	12060
CTTAGTGGGA	AGCATCCCCA	TTCCAGATGG	AGTTTTTCAC	GATCACATAA	TCAACGTGTT	12120
TAAGGTCAGC	AACCTGACGT	CCACCTGCAT	AAGAAATAGC	ACTTTGAAGG	TCTTGTTCCA	12180

876 TCTCAGTTAA AGTGTCTTGC AGATGACCTT TAGCAGGAAG CAAGATACGT TTGCCTTCCA 12240 CATTTTTGTA AGCACCTTTT TGATATTGTG AGGCTGAACC ATAATATTCT TTGAACTGTT 12300 CACCATCGAC TTCAATCGTT TTCCCTGGAC TTTCAATGTG TCCTGCAAAG AGGGAACCAA 12360 TCATGATCAT GCTAGCACCG AAGCGGATAG ACTTAGCAAT ATCACCGTGA GTACGAATTC 12420 CTCCATCAGC GATAATCGGT TTACGCGCAG CCTTGGCACA CCAGCGTAGA GCAGCCAACT 12480 GCCAACCACC TGTACCAAAA CCAGTCTTAA CCTTGGTGAT ACAAACCTTA CCAGGACCGA 12540 TTCCGACCTT AGTAGCATCC GCACCAGCAT TTTCCAATTC ACGCACAGCT TCTGGTGTTC 12600 CCACATTCC AGCAATGACA AAGGTATCTG GCAATTCTTT CTTGATGTGT TGAATCATAG 12660 AAATCACGCT ATCCGCATGA CCATGAGCAA TATCAATAGT GATATACTCA GGAGTATCAG 12720 CCTTGAGCTG GCTAACAAAA TCATACTCAT AATCCTTAAC ACCGACAGAG ATAGAAGCAA 12780 TGAGCCCTTG ATTGTGCATT CGTTTAATAA AAGGAATGCG TCCTGCCTCA TCAAAACGGT 12840 GCATAATGTA GAAGTAACCA CCTTTAGCCA GTTGCTCTGC TACATTTTCA TCCAAAATCG 12900 TCTGCATATT CGCTGGCACA ACAGGTAGTT TAAAGGTGTG ATTTCCTAAA GTGACACTTG 12960 TATCCGCTTC TGCACGGCTT TTAATGACAC ATTTATTTGG AATCAATTGA ATATCTTCGT 13020 AATCAAAAAT TGGAAATTCA TTTAACATAT CGATGTCTCG TTTCTTTTGT AATGACCTAC 13080 CTATGCTCTT GCATCACTAC GCCTTTTCCG ACGTTTCCTG G 13121

#### (2) INFORMATION FOR SEQ ID NO: 127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9578 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

C	CGAATGCAA	TGTTTACGGT	TGAACTTGAA	AATGGACATC	AGATTTTAGC	AACAGTTTCT	60
G	GTAAAATTC	GTAAAAACTA	TATTCGTATT	TTAGCGGGAG	ATCGTGTTAC	TGTCGAAATG	120
P	GTCCATATG	ACTTGACACG	TGGACGTATC	ACTTACCGCT	TTAAATAATC	GAAAAACTTG	180
G	AGGGATAAG	AAATGAAAGT	AAGACCATCG	GTCAAACCAA	TTTGCGAATA	CTGTAAAGTT	240
A	TTCGTCGTA	ATGGTCGTGT	TATGGTAATT	TGCCCAGCAA	ATCCAAAACA	CAAACAACGT	300
C	AAGGATAAG	ATAGAAAGGA	GAAAACATGG	CTCGTATTGC	TGGAGTTGAT	ATTCCAAATG	360
A	CAAACGCGT	AGTAATCTCA	TTGACTTATG	TTTATGGTAT	CGGACTTGCA	ACATCTAAGA	420
Α	AATTTTGGC	TGCTGCTGGA	ATCTCAGAAG	ATGTTCGTGT	ACGTGATCTT	ACATCAGATC	480

AAGAAGATGC	TATCCGTCGT	GAAGTGGATG	CAATCAAAGT	TGAAGGTGAC	CTTCGTCGTG	540
AAGTAAACTT	GAACATCAAA	CGTTTGATGG	AAATCGGTTC	ATACCGTGGT	ATCCGTCACC	600
GTCGTGGACT	TCCTGTCCGT	GGACAAAACA	СТАААААСАА	CGCCCGCACT	CGTAAAGGTA	660
AAGCTGTTGC	GATTGCTGGT	AAGAAAAAAT	AATATAGGAG	GTAAAAGTCT	TGGCTAAACC	720
AACACGTAAA	CGTCGTGTGA	AAAAGAATAT	CGAATCTGGT	ATTGCTCATA	TTCACGCTAC	780
ATTTAATAAC	ACTATTGTTA	TGATTACTGA	TGTGCATGGT	AATGCAATTG	CTTGGTCATC	840
AGCTGGTGCT	CTTGGTTTCA	AAGGTTCTCG	TAAATCTACA	CCATTCGCTG	CTCAAATGGC	900
TTCTGAAGCT	GCTGCTAAAT	CTGCACAAGA	ACACGGTCTT	AAATCAGTTG	AAGTTACTGT	960
AAAAGGTCCA	GGTTCTGGTC	GTGAGTCAGC	TATTCGTGCG	CTTGCTGCCG	CTGGTCTTGA	1020
AGTAACAGCA	ATTCGTGATG	TGACTCCAGT	GCCACACAAT	GGTGCTCGTC	CTCCAAAACG	1080
TCGCCGTGTA	TAATCATCGC	ATTACACTGC	TTTTCGTTTA	AGAGGGAGTA	ACTAAATGAT	1140
CGAGTTTGAA	AAACCAAATA	TAACAAAAAT	TGATGAAAAT	AAAGATTATG	GCAAGTTTGT	1200
AATCGAACCA	CTTGAACGTG	GCTACGGTAC	AACTCTTGGT	AACTCTCTTC	GTCGTGTACT	1260
TCTAGCTTCT	CTACCAGGAG	CAGCTGTGAC	ATCTATCAAC	ATTGATGGTG	TGTTACATGA	1320
GTTTGACACA	GTTCCAGGTG	TTCGTGAAGA	CGTGATGCAA	ATCATTCTGA	ACATTAAAGG	1380
AATTGCAGTG	AAATCGTACG	TTGAAGACGA	AAAAATCATC	GAACTGGATG	TTGAAGGTCC	1440
TGCTGAAGTA	ACAGCTGGTG	ACATTTTGAC	AGATAGCGAT	ATTGAAATTG	TAAATCCAGA	1500
TCATTATCTC	TTTACAATCG	GTGAAGGTTC	ттстсталал	GCGACTATGA	CTGTTAACAG	1560
TGGTCGTGGA	TATGTACCTG	CTGATGAAAA	TAAAAAGGAT	AATGCACCAG	TTGGAACACT	1620
TGCTGTAGAT	TCTATTTATA	CACCAGTTAC	AAAAGTCAAC	TATCAAGTGG	AACCTGCTCG	1680
TGTAGGTAGC	AATGATGGTT	TCGACAAATT	AACCCTTGAA	ATCTTGACAA	ATGGAACAAT	1740
TATTCCAGAA	GATGCTTTAG	GGCTTTCAGC	ACGTATTTTG	ACAGAACATC	TTGATTTGTT	1800
TACAAATCTT	ACTGAGATTG	CTAAGTCAAC	TGAAGTGATG	AAAGAAGCTG	ATACTGAATC	1860
TGACGACCGT	ATTTTAGATC	GTACGATTGA	GGAACTGGAC	TTGTCTGTGC	GTTCATACAA	1920
CTGTTTAAAA	CGTGCCGGTA	TCAATACTGT	GCATGATTTG	ACAGAAAAAT	CTGAAGCAGA	1980
GATGATGAAA	GTACGAAATC	TTGGACGCAA	GAGTTTGGAA	GAAGTGAAAC	TCAAACTCAT	2040
TGATTTGGGT	CTTGGATTAA	AAGATAAATA	AAGGAGGAAT	ACATGGCTTA	CCGTAAACTA	2100
GGACGCACTA	GCTCACAACG	TAAAGCAATG	CTTCGCGATT	TGACAACTGA	CCTTTTGATC	2160
AACGAATCAA	TCGTGACAAC	TGAAGCTCGT	GCTAAAGAAA	TCCGTAAAAC	TGTTGAAAAA	2220

878 ATGATTACTC TAGGTAAACG TGGTGATTTG CATGCACGTC GTCAAGCAGC TGCTTTCGTA 2280 CGTAATGAAA TCGCATCTGA AAACTATGAT GAAGCAACTG ATAAGTACAC TTCTACTACA 2340 GCACTTCAAA AATTGTTCTC AGAAATCGCA CCTCGTTATG CTGAACGTAA CGGTGGATAC 2400 ACTCGTATCC TTAAAACTGA ATCACGTCGT GGTGATGCAG CGCCAATGGC GATCATCGAA 2460 TTAGTATAAA ATCATCAATT TTGTTGAGTG TTATGATGAT GGAGTCTTGT GCTCTTAGTC 2520 TAGCTCTGGT CTACCGCTAG GATTTCGGTC CTAGCGGGAA CACTCATCAT AAGTTGGGAT 2580 AGTAGACGCT TGTTTACGAA ATTGTTTTTT TCTTAAGAAC AACTTCGTAA GCAGGCGTTT 2640 TTGAGTATTT TCGTTAGAAT TATGCTATAC TATTTGAAAA GAATCCTGTT TAATGTTAAG 2700 GTTTCTTATT TTAAGAAGAA TTGGAGTTTA CTTATGAAAG CCATTATAAC TGTTGTTGGT 2760 AAAGATAAAT CTGGAATTGT TGCAGGTGTT TCTGGTAAAA TTGCAGAATT AGGATTGAAT 2820 ATTGACGATA TCTCTCAAAC TGTCTTGGAT GAATATTTTA CGATGATGGC TGTTGTATCT 2880 AGTGATGAAA AGCAAGATTT TACCTATCTT CGTAATGAAT TTGAAGCTTT TGGGCAAACT 2940 TTGAATGTAA AAATCAATAT TCAGAGTGCA GCGATTTTCG AAGCTATGTA TAATATCTAG 3000 GAGGTCATCA TGGATATTAG ACAAGTTACT GAAACCATCG CCATGATTGA GGAGCAAAAC 3060 TTCGATATTA GAACCATTAC CATGGGGATT TCTCTTTTGG ACTGTATCGA TCCAGATATC 3120 AATCGTGCTG CGGAGAAAAT CTATCAAAAA ATTACGACAA AGGCGGCTAA TTTAGTAGCT 3180 GTTGGTGATG AAATTGCGGC TGAGTTGGGA ATTCCTATCG TTAATAAGCG TGTATCGGTG 3240 ACACCTATTT CTCTGATTGG GGCAGCGACA GATGCGACGG ACTACGTGGT TCTGGCAAAA 3300 GCGCTTGATA AGGCTGCGAA AGAGATTGGT GTGGACTTTA TTGGTGGTTT TTCTGCCTTA 3360 3420 GCTGAGACGG ATAAGGTCTG CTCGTCAGTC AATATCGGCT CAACCAAGTC TGGTATTAAT 3480 ATGACGGCTG TGGCAGATAT GGGACGAATT ATCAAGGAAA CAGCAAATCT TTCAGATATG 3540 GGAGTGGCCA AGTTGGTTGT ATTCGCTAAT GCTGTTGAGG ACAATCCATT TATGGCGGGT 3600 GCCTTTCATG GTGTTGGGGA AGCAGATGTT ATCATCAATG TCGGAGTTTC TGGTCCTGGT 3660 GTTGTGAAAC GTGCTTTGGA AAAAGTTCGT GGACAGAGCT TTGATGTAGT AGCCGAAACA 3720 GTTAAGAAAA CTGCCTTTAA AATCACTCGT ATCGGTCAAT TGGTTGGTCA AATGGCCAGT 3780 GAGAGACTGG GTGTGGAGTT TGGTATTGTG GACTTGAGTT TGGCACCAAC CCCTGCGGTT 3840 GGAGACTCTG TGGCACGTGT CCTTGAGGAA ATGGGGCTAG AAACAGTTGG CACGCATGGA 3900 ACGACGGCTG CCTTGGCCCT CTTGAACGAC CAAGTTAAAA AGGGTGGAGT GATGGCCTGC 3960 AACCAAGTCG GTGGTTTATC TGGTGCCTTT ATCCCTGTTT CTGAGGATGA AGGAATGATT 4020

GCTGCAGTGC	AAAATGGCTC	TCTTAATTTA	GAAAAACTAG	AAGCTATGAC	GGCTATCTGT	4080
TCTGTTGGAT	TGGATATGAT	TGCCATCCCA	GAAGATACGC	CTGCTGAAAC	TATTGCGGCT	4140
ATGATTGCGG	ATGAAGCAGC	AATCGGTGTT	ATCAACATGA	AAACAACAGC	TGTTCGTATC	4200
ATTCCCAAAG	GAAAAGAAGG	CGATATGATT	GAGTTTGGTG	GTCTATTAGG	AACTGCACCC	4260
GTTATGAAGG	TTAATGGGGC	TTCGTCTGTC	GACTTCATCT	CTCGCGGTGG	ACAAATCCCA	4320
GCACCAATTC	ATAGTTTTAA	AAATTAAGAA	AATAGGAGAA	ATTTTAAGTT	CTATTTAAGA	4380
TTAGACGTGT	ATACTATAAT	CATTAAATAA	AGACCTCCTA	ATATTATTTG	AAACAGATAA	4440
CACTGAATTA	GTTTGAATTT	GATTTTCATC	TAATATCTTT	ATTTAATGAA	CTCCTAAACT	4500
TTTTCATAAT	AATCTCCTTC	AAAAGTCGCC	TGTATGGGTG	GCTTTTATTT	TATCATTCAT	4560
GATATAATAG	AAGCAAACGG	AGGACGGAAA	ATGGTAAAAG	TACGATTGTA	TTTGGTACGT	4620
CATGGCAAGA	CCATGTTTAA	CACGATTGGT	CGCGCGCAAG	GTTGGAGCGA	TACTCCCTTA	4680
ACTGCTGAAG	GTGAACGAGG	GATTCAAGAG	TTAGGAATCG	GTTTGCGAGA	ATCTGATCTA	4740
CAGTTTGAGC	GTGCTTATTC	GAGTGATTCT	GGTCGTACCA	TTCAGACCAT	GGGAATTATC	4800
CTTGAAGAAC	TTGGCTTGCA	GGGGGAAATC	CCTTATCGCA	TGGACAAGCG	TATCAGAGAA	4860
TGGTGTTTCG	GTAGTTTTGA	TGGAGCCTAT	GATGGCGATC	TTTTCATGGG	CATTATTCCT	4920
CGTATCTTTA	ATGTGGACCA	CGTTCACCAA	TTGTCTTATG	CTGAACTGGC	TGAGGGCTTG	4980
GTAGAGGTCG	ATACAGCTGG	TTGGGCTGAA	GGCTGGGAAA	AACTCAGTGG	CCGAATCAAG	5040
GAAGGCTTTG	AAATGATTGC	AAAAGAAATG	GAAGATCAAG	GTGGAGGTAA	CGCCCTTGTT	5100
GTCAGCCATG	GAATGACTAT	TGGAACCATT	GTTTATCTGA	TTAATGGCAT	GCATCCGCAT	5160
GGTCTGGATA	ATGGTAGCGT	GACAATCCTT	GAATATGAGG	ACGGCCAGTT	TAGGGTTGAA	5220
GTTGTCGGTG	ACCGTAGTTA	CCGAGAGCTA	GGACGTGAGA	AGATGGAAGA	AGGCTCTATT	5280
TAATCAGTCT	AGACTTGCTT	GCCATGAGCT	AGGGATTTGA	TAAGAATATC	AAGATAAGAA	5340
AAAACAGCCG	AGGGCACTCC	TTTCGGCTGT	TTTTGATGTG	GAAAACTAAA	GTGTAATGCT	5400
ATTGCTTTTA	GAGATTTTCA	TAAACAAGAG	CAAGGAACCT	ACTGTTAGAA	CAGTCAGGAT	5460
AGTTGACAAG	GTTGCGGCTA	CACCGTAATT	TCCTCTGAGA	ACCTCTGTAT	AAATAGCTAC	5520
AGTCATTGTT	CTTGTTTTGA	CATTGTAGAG	GAGGATAGAA	GTAGAGAGTT	TTGAAATCAT	5580
TGTGACTCAA	GATAAGATGG	CTCCAGAAAT	GATACCAGAT	AGCATCATTG	GAGTTGTAAT	5640
CTTAGCAAAG	GTATTGAGAC	GACTACTTCC	TAAGCTTTCA	GCAGCTTCTT	CAATACTTGG	5700
TGCTATTTGT	TGTAAGCTAG	CAACAGATGA	GCGAATAGTA	TAAGGTAATC	TTCTGGCAGA	5760

880 TAGAGACATA ATCAAGATGA AAGCAGTCCC TGTAATCATA AGAAATCCAC TTCCAAATAG 5820 ACCAGTATTG AAGGAAGAA TGAAGGCAAT CCCTAGAACG GTTCCTGGTA CAATATAAGG 5880 TACCATACTG AGGCTGTCAA TTAAGTTTGT AAACAAATTC CGTTTTCTAA CGGCTAGGTA 5940 GGAGATAAAT GTCGCAAATA GAACAACTAG AACTAAGGCA ATCAAAGGGA TACGAATGGT 6000 ATTGAAAATA GCAGATCCCA TACGATGGAA AGCTACCTTG TAACTGTTTG GAGAATAACC 6060 TTTAACAGAT ACCATACCTG ATGTTTTTAG GAAAGAGGTA TAAATTAAGT AGATTTGAGG 6120 TAAAACAGAG ATAAAGATAA TTCCGTAGAC TGTTGCATAA ATGGCAGCCA TTTTTCCTTT 6180 TGTAGTTTTT TTAGGCTCAA TTGGATGGAG CAGATTCATG CTGAAACTGT AGCGGTTTGC 6240 AATGTGTTTT TGGATAAGGA AAATTGCCAA GGCAATGATA ATCGCCATAA TTGCAAAAGC 6300 AGAATTTCCT CCAACCTCGC TAATAAATTG GGTATAAATC AGGACAGGGA AAGTCCGATA 6360 CCCTTCGCCA ATCAACATAG GCGTTCCAAA GTCTGAGAAT GCTCTCATAA ATACAAGCAA 6420 GGAGCTGCTA GTAAGGTTGG AACTAGGAGA GGTAAAACAA CCGTTACGAT AGGTTTAAAT 6480 CCGAAGGACC CCATGCTTTC AGCTGCTTCA AGTAGAGAAT TGTCAATACT GTTCATTGTT 6540 CCAGCAACAT ATAGAAATAC CAGTGGGAAT AGTTGCAGTG TAAAGACAAG TACAATTCCT 6600 TTGAATCAAT AAATATCGAT AGCTGGAAGA TAAAGGGCAT TTGTCAAAAA TTTAGTGATG 6660 ACCTCATTTC GTCCTAGCAA GAGAACCCAG GAGTAGGCTC CTACGAAAGG AGCTGACATG 6720 GAAGCAATGA TAATCAATAT TTGTAGAAAT TTCTTCCCCT TGAAGTCATA CATAGAGAAG 6780 AGATAAGCTA ATAGGGTTCC TACAACTAAG GAAGTGATAG TAGCGGTAAT GGAAACCTTG 6840 AAACTGTTGA CTAGTGTCTC AGAGTAGTAG GCTTTACTAA AGAAAGTGAC AAAATTAGCT 6900 AGTGAGAATT GTCCTTCATG TATAAGTGCT TGCTTGAGCA CGGTAACGAT AGGATAAACG 6960 AGAAAGATAG GATAGGTAAG AAAGAGGAAG AAAGAGGAAA CTGTCCAAAT ATTTAGTTTT 7020 TTACGTTCCA TGGTTGACTC CTTTTATCAG GTTTTGGGAA CCATCTGCAG AAAAGATGTT 7080 TAATTTTTGC GTATTGATTC GTAGACGAAT ACGATTGCCT TTTTGTAGAT CTTCTTCAAA 7140 AGTTGATTCT TCACTAACTT GAATTTTTGA GGCAAAACCT GTCTCAATGA AATAATCCGT 7200 ATTTAGTCCA AGATAGACGC TATCTCTAAT AGTTCCTTCA ATATCTCCAG ATTCATCTTT 7260 GATAAACTCT TCGGGACGAA TGCTTACATG AATAGCTTGC TCCTCAACCT GATCAAGAGC 7320 TGGCATTCGA AGGGCATAGC CATCTGAAAA GACGATATAA GCGCCGTCGC TCCGTTTTTC 7380 AAGATTGGCA GGGATAATAT TTGTGCGTCC GATAAAGGTT GCCACAAACT CATTAGCTGG 7440 TTTATGATAG AGTTCTTTTG GTCGGCCGAT TTGTTGGATC ACCCCATCTT TCATAACAGC 7500 AATTTGGTCT GAAATAGCCA TGGCTTCTTC TTGGTCGTGG GTTACATAAA CAGTTGTAAT 7560

TCCCACTTCG	TGTTGGATTT	CTCGGATGGC	TTGACGCATA	TCCAAGCGAA	GTTTGGCCTC	7620
CAGATTACTA	AGTGGCTCGT	CCATGAGGAG	AACACTTGGA	TTAACCGCTA	AGGCGCATGC	7680
CAAGGTGACA	CGTTGTTGTT	GTCCACCACT	GAGTTTATCG	GGCTTTCGAT	CCGCATATTG	7740
AGCAATTTGC	ATGAGTTCAA	GATACTTGTT	GGTCTGTTGA	ATCAATTCTT	CTTTTGGAAC	7800
CTTCTTTTGC	ATAAGACCAA	AAGCAACGTT	GTCTCGGACA	GTCAAATGTG	GGAAAATAGC	7860
GTAGTTTTGG	AAAACCATCC	CGATATTGCG	TTTGCTGGGT	TCCATATTAT	TGATTTTTGT	7920
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AATGTTCAAA	TTCTCAATAA	CAGGGACATC	GTGGTAGATT	TTTTTGGCGT	TAATAATTTT	8100
GATCTCACTC	ATAGTGAACC	TCTTTTACTG	TTTAGATTGG	ATATCTGTAA	AGACTTCGTT	8160
GTATTTCTTA	ACGATATCTG	ATTTATTCTT	GATGACATAA	TCATAATCTT	CAGTGAGTGT	8220
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GTTAGTAGTG	GTTGTACCAA	GTGTATCTTG	TACTTCTTGA	GAGATAATAA	AATCGATAAA	8340
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GACGGTTCCT	TCTTTTGGAT	AGACTACCTT	AATGTTAGCT	CCGTCATTTA	AGAGTTTAAC	8460
TGCTGGATCT	TCATAAGAGA	GACCAACAGC	CATTTCTCCA	TCAGCGACTA	CTTTATAGAC	8520
ACTAGATGAA	CTTGAACCGA	TTTTACCATC	AATAAGTGTG	AAAAGATCTT	TTACATAAGA	8580
CCAAGCCTTA	TCATCTTTGT	AACCACCTTG	AGCTTGTAGC	ATATTTGTTA	ATTGAGCAAA	8640
GGCGCTAGAA	GAGTTTGCTG	GGTCAGCAGT	TGCGATTTTT	CCTTTTAGTT	CAGGTTTGAA	8700
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ACTACCATCT	AGTGTATAAG	GAGTAGAGTA	GCCAGTTGTG	TTTTGATATT	CTTTGATAAC	8820
ATTATCATTT	TCTTTTGAAG	TATAGTTTTC	AAAGAGTTCT	CCGTGGGTAG	TATATTGTGT	8880
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GAAAAGTTCT	CCAGTACCAG	CTTGAATCAG	TTCTACTTTG	ATACCATATT	TTTCTTCAAA	9000
GGCAGGAATA	GTTGCTCCAA	TTAAGCCCTC	TGAGTTTGGT	GAATAAACGA	CTAGCGAACC	9060
GCCGTCTCCT	TTATCAGATG	AACTGTCATC	GGCAGATTCA	TTAGAAGAAC	AAGCAGCATA	9120
ATACATCCAT	TTCTTTTTCA	TGATGGATAC	CTCCGTTGTG	TTATTTAAGT	TTATTTTAAA	9180
ACAATGTAAG	CGTTTTTAAA	ACATACAATT	СТАТТСТАТА	GTGTATTGAA	TCTATAACAG	9240
TACACTTTGA	CTGCTAAAAT	ATTTCTATAA	ATTAATTTGA	CTTTCCTGAT	AGAGATGTTC	9300

882	0260
ACATCTTATT TCAATTCACT ATATTAGAGT AAAATTCTCT ACAAAAAGAA GAATAGCCTA	9360
TTTTACTATT CTTCTGAGTG ATTTCAATTC CTTTGGGGAA ATATGGAGAT ACTTTTTAAA	9420
TCCTGACAAA TGGTTGTTTC TTTTTCTAAA TCGGTGATAC TGTATCGGAG AATGCGCGTG	9480
AGGTCACAAA GGCTGCGATA GAGCTTCTAT GGAGAATTTC TTTTTGGAGA GATTTTTTAA	9540
AGGAATGAGA CATCCGCTAC CTCCTTGGAA GGTTTTTG	9578
(2) INFORMATION FOR SEQ ID NO: 128:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 13440 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:	
CGGGCTGTTG TGACGATTCT TATTTCTATC TGTGTTATCT TTTTGGGAAC TATTTTGGGT	60
GTTGTCTTGG CTTTTGGGCA ACGTTCAAAG TTTAAACCGC TTGTTTGGTT GGCCAACTTG	120
TACGTTTGGA TTTTCCGTGG GACACCGATG ATGGTTCAAA TTATGATTGC CTTTGCTCTT	180
ATGCATATCA ATGCTCCGAC TATTCAGATT GGAATTTTAG GTGTTGATTT TTCGCGTCTG	240
ATTCCAGGGA TTTTGATTAT CTCTATGAAT AGTGGTGCTT ATGTTTCGGA GACTGTTCGT	300
GCCGGAATCA ATGCGGTTCC AAAAGGTCAG CTAGAAGCGG CTTATTCGCT AGGGATTCGT	360
CCTAAAAATG CGATGCGTTA TGTGATTTTG CCACAAGCAG TCAAAAATAT CTTGCCAGCA	420
TTGGGGAACG AATTTATCAC CATTATCAAG GACAGCTCCC TCTTATCAGC TATTGGGGTC	480
ATGGAGTTGT GGAATGGGGC TACAACAGTT TCTACAACAA CCTATCTACC TTTAACACCA	540
CTTTTATTTG CAGCATTTTA CTACTTGATT ATGACCTCTA TTCTGACAGT AGCCTTGAAA	600
GCTTTTGAAA AACATATGGG ACAAGGAGAT AAGAAATAAT GACAGAAACC TTGATAAAAA	660
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AACAATTCAA TCTCTTTCCT AATATGACTG TGATGGAAAA TATCACCTTG TCCCCTATCA	960
AGACCAAAGG TGACAGTAAG GCCGTTGCAG AGAAAAGAGC TCAGGAACTT TTGGAAAAAG	1020

TTGGTTTGCC AGATAAGGCA GACGCTTATC CACAGAGTTT GTCAGGTGGC CAGCAACAGC

GGATTGCCAT CGCGCGTGGG TTGGCTATGG AACCAGATGT TTTGCTCTTT GACGAGCCAA

1080

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AGTCAGGAAT	GACCATGGTT	ATCGTAACAC	ATGAGATGGG	ATTTGCCCGT	GAGGTGGCAG	1260
ATCGTGTCAT	CTTTATGGCA	GACGGTGTGG	TTGTTGAAGA	CGGAACACCT	GAGCAGATTT	1320
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TTGTTTAGCT	ATTTGTAGCC	AGCTTTAAAC	GTTAAAGAGA	AGATTAGTGA	AAAGCTCAAC	1440
CAGAGCTTTT	TCTTATAGTT	TAAAGCTATA	GGATTGCCTA	GGAAAGAAGT	GTTAGAGCTA	1500
CATTGTATTT	TTTGGTATAA	TTAAAGATAT	TTGTAAGAAA	AGAGAAGTGA	TATGACACAG	1560
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AAATTAAAGG	AAGAAACAGG	TCTAGTGCCT	GGTTTGGTAG	TGATTTTGGT	TGGGGACAAT	1680
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AGCGAAGTAG	TACGGGTTCC	AGAGACCATT	ACTCAAGAGG	AATTGTTAGA	CCTGATTGCT	1800
AAATACAATC	AGGATCCAGC	TTGGCATGGG	ATTTTGGTTC	AGTTGCCATT	ACCAAAACAC	1860
ATTGATGAAG	AGGCGGTTCT	ATTGGCTATT	GACCCAGAAA	AGGATGTGGA	TGGTTTCCAT	1920
CCTCTAAACA	TGGGGCGTCT	TTGGTCTGGT	CATCCAGTCA	TGATTCCTTC	GACACCGGCA	1980
GGAATTATGG	AAATGTTCCA	TGAATATGGG	ATTGACTTGG	AAGGTAAAAA	TGCAGTCGTC	2040
ATCGGTCGAT	CCAATATTGT	CGGAAAACCT	ATGGCCCAGC	TTCTTTTGGC	AAAGAATGCA	2100
ACAGTAACCT	TGACTCACTC	ACGTACTCAT	AATCTTTCCA	AGGTGGCTGC	AAAAGCAGAT	2160
ATTCTGGTTG	TTGCAATCGG	TCGTGCCAAG	TTTGTGACTG	CTGACTTTGT	CAAACCAGGT	2220
GCGGTAGTCA	TTGACGTTGG	GATGAACCGC	GATGAAAATG	GTAAGCTCTG	TGGGGATGTT	2280
GATTATGAGG	CGGTTGCCCC	ACTTGCTAGC	CACATTACGC	CAGTCCCTGG	AGGTGTCGGT	2340
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TACAATGGGA	TGGAATATAC	TACTTAGCAC	TAATTGATTA	TCCAAATATT	CAAGAGTGGG	2640
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TTCTGCCACC	ATTTACTCCT	ACAGATAAAA	GAGTAGCCTC	GACTTATGAC	CTACATAAGA	2820
GGTTAGTGAC	TTCAGACTAC	TGTAGTCATA	CTACGACTAT	AGATGCAGCG	ATTTCTATTT	2880

884 TTAAAACTGG TCGTCTTTTA TCTGCTGTGA AAGCCTTTGG GCGAGATGCT GAGGAGTTGG 2940 TTTTGGATAG TCGAAATGCT GCATCTGATC CGATAGATTA TTTTGACTAT GTCATGTTAG 3000 GGTGGTCAAA TACAAGTTCT GGTTATCGAT TGGCGATGGA GCGTTTATTA GGTCGAGCTC 3060 CTTCAGAGAA AGAATTACAA GACAAGTTTA TTCCTGGAGT AAGTTTTCAT TTTATCTATA 3120 CAGATTTGAT TAAAGTTCCT GGTTATATTT TTGATGGTTA CCATGCTGTA AAAATTAAGG 3180 ACATGCTTAA TTTATTAAGT GAGTTGTATA TTTGCATTAT TCCAACTCAT AATAAGAGCC 3240 AATTTGAAAA TATTATTCCA ACCAAAATAC AAGATAGGGT GTATTATCTT GACTATGCTG 3300 GAGAAGACTT AGAAGAGTGG ACTAAGAAAG TCTATCAAGT TGTTTTAAAA CAATCAGATA 3360 AAGGATAGTT GAGGAAAAAA CGATGAAAGT GATTGATCAA ACCTTACTAG AAAAAGTCAT 3420 TATTGAACGT TCTTGTACAA GTCATAAAGG AGACTACGGT CGTCTGCTGT TGCTTGGTGG 3480 GACTTATCCT TATGGTGGTG CCATCATCAT GGCTGCTTTA GCAGCTGTAA AAAGCGGTGC 3540 AGGATTGGTA ACCGTTGGAA CGGACAGGGA AAATATCCCT GCTCTACACA GCCATTTGCC 3600 TGAGGCTATG GCCTTTTCTC TGCAAGATCA GTAATTGTTA CAAGAGCAAT TGGAGAAGGC 3660 AGAAGTTGTC TTGCTGGGGC CTGGTTTACG AGACGATACG TTTGGAGAAA ATCTTGTAAA 3720 ACAGGTCTTT GCTAGCTTAA AAAAGAATCA GATTTTGATT GTAGATGGAG GGGCCTTAAC 3780 CATCCTTGCT AGGACAAGTT TGTTGTTTCC ATCTAACCAG CTTATCTTAA CTCCCCACCA 3840 AAAAGAATGG GAAAAACTGT CTGGTATTGC TATTGAAAAG CAAAACGAAG GTACAACATC 3900 TAGTGCCCTG ACTTCTTTCC CTCAAGGAAC AATTTTGGTA GAGAAAGGTC CAGCTACTCG 3960 TATTTGGCAA GTTGGCCAGT CTGATTATTA CCAGTTAAAG GTTGGCGGTC CCTATCAGGC 4020 GACTGGTGGT ATGGGTGATA CACTGGCTGG AATGATTGCA GGATTTGCAG GCCAATTTCG 4080 ACAGGCCAGT CTCTACGAAC GTGTGGCAGT AGCAACCCAT CTTCATTCAG CCATAGCCCA 4140 AGAACTATCT CAAGAAAATT ATGTGGTCTT GCCGACGGAA ATTAGTAATT GTCTTCCTAA 4200 AGTAATGAAA AGATATGTCT AAAATAGTTA GACAAAAAAT GTTGATAATT TGTATCATTA 4260 TTCTTAATTC ACAAAAACG AACGTTTAGT ATTCTTCTTG CTAAGAAACT AAATTTGTTC 4320 GTTTTTTAC TCTTGTAAAT CTATTTTGT TAGAGTTGAT TTGGTTTACA TCCGTACTTA 4380 AATTGATTTG TTAGAGCTCT ACTTTTATTA AAAAAATTCA ATTTCAAGGA TAAATAAGCA 4440 GTATTCTAAA GGTACTTTTA GATGAAATAA AAGCCTTTAC ATGGTATAAT AGAGGTAGCT 4500 CTTTAATGGA GGTGTTTGAG TGGAAAATCT GAAGAAAATG GCAGGTATCA CGGCTGCTGA 4560 ATTTATCAAG GATGGGATGG TTGTAGGGCT AGGAACAGGT TCTACTGCCT ATTATTTTGT 4620 CGAAGAATC GGTCGTCGAA TCAAGGAAGA AGGCTTGCAG ATTACAGCTG TGACGACTTC 4680

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CAAAGGCGGT	GGTGGTGCCC	TTCTCATGGA	AAAGGTGGTC	GCAACACCAT	CAAAAGAATA	4860
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CTAAATTTAA	TCGTATTCAT	TTGGTGGTAC	TGGATTCTGT	AGGAATCGGT	GCAGCACCAG	5280
ATGCTAATAA	CTTTGTCAAT	GCAGGGGTTC	CAGATGGAGC	TTCTGACACA	CTGGGACACA	5340
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AAATCGAAGA	ATTCTCAGGA	CGCAAGGTTA	TTCGTGAAGC	CAACAAACCT	TATTCAGGAA	5640
CGGCTGTTAT	CTATGATTTT	GGACCACGTC	AGATGGAAAC	TGGAGAGTTG	ATTATCTATA	5700
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GCCCTGCCTT	TAAAGGAAAT	GGTCTCATTC	CAGTAGGACA	TTTTGCAGAT	ATTTCAGCGA	6360
CTGTTGCCGA	TAACTTTGGT	GTGGAAACTG	CTATGATTGG	GGAAAGTTTC	TTAGATAAAT	6420

886 TGGTATAAGA TGACGCGCTA TGCTTTGCTG GTGAGAGGTA TCAATGTTGG TGGTAAGAAT 6480 AAGGTCGTCA TGGCGGAGCT TCGTCAAGAA TTGACAAACT TGGGACTGGA AAAGGTTGAG 6540 AGCTACATCA ATAGTGGCAA TATTTTCTTT ACTTCGATAG ATTCCAAAGC CCAATTGGTT 6600 GAAAAGCTAG AGACTTTCTT TGCAGTCCAT TATCCATTTA TTCAGAGCTT TTCTTTACTG 6660 AGTCTAGAGG ACTTTGAGGC GGAACTTGAA AATCTACCAG CTTGGTGGAG CAGAGACTTG 6720 GCACGAAAAG ATTTTCTCTT TTACACTGAG GGTTTGGATG TGGACCAAGT CATCGCGACA 6780 GTTGAAAGTT TAGAGCTGAA AGATGAAGTG CTTTATTTTG GAAAACTTGG GATTTTCTGG 6840 GGGAAATTTT CTGAAGAATC CTATTCTAAG ACTGCCTATC ATAAGTACTT GCTGAAGGTG 6900 CCTTTCTACC GCCACATTAC TATTCGTAAT GCTAAAACCT TTGACAAAAT TGGTCAAATG 6960 CTAAAAAAA AATAAAGGAG ACACAAATG ACATTTTTAA ACAAAATCCA TGAAACTGCT 7020 ACTTTCCTGA AAGAAAAGGG AATTGCAGCC CCTGAGTTCG GTCTAATCCT TGGATCAGGA 7080 CTTGGAGAAT TGGCAGAAGA AATCGAAAAT CCAGTTGTAG TAGACTATGC TGAGATTCCA 7140 AACTGGGGCC GTTCAACAGT AGTCGGTCAT GCTGGTAAAT TGGTATATGG TGAACTGGCA 7200 GGTCGCAAGG TCTTGGCTCT TCAAGGGCGT TTCCATTTCT ATGAAGGGAA TCCTCTGGAA 7260 GTGGTGACTT TCCCAGTTCG TGTGATGAAA GTTCTTGGAT GTGAAGGTGT TATTGTAACC 7320 AATGCAGCTG GCGGTATCGG ATTTGGTCCT GGTACCTTGA TGGCTATCTC AGACCATATC 7380 AACATGACGG GGCAAAATCC ATTGATGGGT GAAAACTTGG ATGACTTTGG CCCACGTTTC 7440 CCAGATATGT CTAGGGCCTA CACACCAGAA TACCGTGCCA CTGCCCATGA AGTGGCTAAA 7500 AAACTTAATA TCAAGCTTGA TGAAGGTGTC TATATCGGAG TTACTGGTCC GACTTATGAA 7560 ACACCAGCAG AAATTCGTTC CTATAAGACA CTGGGAGCAG ATGCAGTTGG TATGTCTACG 7620 GTTCCTGAAG TTATCGTGGC AGCCCACTCT GGCTTGAAAG TTCTGGGAAT TTCATGTATC 7680 ACTAACTTTG CGGCCGGTTT CCAAGAAGAA CTCAATCACG AAGAAGTTGT AGAAGTGACT 7740 GAACGTGTTA AAGGTGATTT CAAAGGCTTG CTTAAAGCGA TTCTTGCTGA ATTGTAAGAA 7800 AAAAGATTTA AAAGGGGGAG TGCCTCTGTT TTTTCAGGAT TGACTGCCTA TCCGGATTAA 7860 AGAAGAAACA GAGGAATACT ATGAGCTTCT TCCTGCTCTT ATAACTGAAA GAAGCGGAAG 7920 AATAGGTATG TCTGATCTGA TAGCCAGCAT TGTGAAAGAC AAGATTCTAG GATACTAGCA 7980 TTAGCTTCCT AGCCAAGCAG ACTAGTATGA TAAGGAGAGA TGAGAATGAA TTGACTTTCT 8040 GAATTTCTCA GTCTTATCAT ATATAGCACA ATGAGATTTC GCTTGAGTCT GCTTGTAAAT 8100 AAACGAAAAG AAAGATAAGA AATAATGAAA ATTGGTCAAC GAATTATGCG CTTTGGCATA 8160 AAAAATTAAG TATCGGAGTT GTATCTGTTG TAGTCGGCTT TGATTTCTAG CTCCAGCTGG 8220

AATTTCAGCC	AATGAAGTAA	AGCAAGATGT	AACATCTGAA	GTGGTAATAG	GTGTGCTAGA	8280
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AGAGGAGCCA	AGACTAGCTC	CTCAAACGCT	TCCGGAAGCA	AGTGAAGTTC	TTGAAAACAA	8400
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TGTTGGGGAA	TTAGCCAAGG	ATATAAGTAT	TACTAAGTTG	TATATGACAG	GTCATTCTCT	8520
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GGATAAACAT	GGTTATCGTG	ATCCGAAATT	GGATAAAGTG	CGATTCTTTA	AGAAACAGGC	8940
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GTGGCAAGTA	GATTTGGCTA	AAGAAGAAAC	CATTCGCCAA	ATCAATATTT	ACAACCGAAC	9180
AGACACTGCC	CAGGATAGAT	TGGCAAACTT	TGATGTCATT	CTTTTAGACA	GTTCTGGTAA	9240
AGAAATTGAG	TGAAAACGTA	TAACATCTCC	TAAAGATGTG	TCAGCACAAA	TTACGATTAA	9300
CCATAAAAAA	GCGCGCTATG	TTCGGATTGA	GCTAGAAGGC	TATAATGCCC	TCAGTCTTGC	9360
AGAAGTTGAA	GTTTTCTGCT	TTATAGCTAC	GAATGCTGAA	ACGGCGACAC	AAGTTTCTAA	9420
GCCAGTTCAA	CCAATCAGTC	AGACTCCTGT	GAAGGATAAA	ACATTGACAA	TTCAACACAG	9480
TGGAGCTTAC	ATTGCCCGCT	ACTCCATAAC	TTGGGAAGAA	GTTCCAGTAG	ATAAAGATGG	9540
AAACCAAGTT	GTTCGTAGTC	ATTCTTGGGA	AGGAAGCGGT	CGCAACCAGA	CTGCAGGTTT	9600
TGTCCTCAAC	CTCCCAATCA	AAGAAAATAT	GAGAAATCTG	CGAGTTAAGA	TTGAGAAAAA	9660
GACGGGCCTA	CTATGGAATA	GATGGCAAAC	AATCTATGAA	AACAGACCAA	TTTTAGCTCA	9720
ACCCCACCGT	AAAATTACCC	ATTGGGGTAC	GACATTGAAT	TCCAAGGTGA	GTGACGATGA	9780
TGTCTTGTAA	TCTGATGGTA	GAATGACAGT	TAGTTTGTCT	AGTTTATAAG	AAAGTACTAC	9840
CTGAGCTTGA	ATAGGACTCA	GGTAGCTCTC	TATGAAAGAA	СААААТТААТ	ACTCAATGAA	9900
AATCAAAGAG	CAAACTAAGA	AACTAGCCGC	AGGTTGCTCA	AAGCACTGCT	TTGAGGTTGT	9960

888 AGATAAGACT GACGAAGTCA GTCACATATA TAATCCAAGG CGACGTTGAC GTGGTTTGAA 10020 GAGATTTTCG AAGAGTATAA ACAGAAAGGT AGAGCGCGTG TTCTAATTTG AACACGAGTA 10080 GAAAACTTTT CTAAAAACAA AAACGAAAGG ATGGGTAAAC TGTATTCGCT GAACTGAATA 10140 CGGGCGACTC TCCTCTAAAT CAAAATTAAG AAAGGAATTG ACCCCACCCT AAAAGTAGTG 10200 GGAAAAAGAT AGTTGATCTA GCGAGCATCG CTCACTGCGC CCAACTCCTA TTTTCCCTTC 10260 GCTTTTTGAT GGGTTTGGTA TCTTTCTCAA TATAAAATAT AAAATAAAGA AAGGTAGAGC 10320 GTGTGTTTTG ATTTGAACAC GAGCGGAAAA CTCGGAAAAT AGATAATCTG ACTGAAAAAT 10380 CAGGATTTCT CGTCAGGTTC CTAATTTTCA GTCGTTTTCT TCTCGCTCTT TGTATCATAA 10440 ATTATGTCTA TCCATATTGC TGCTCAGCAG GGTGAAATTG CTGATAAAAT TCTTCTTCCT 10500 GGGGATCCTC TTCGTGCTAA GTTTATTGCG GAGAATTTCC TTGATGATGC TGTTTGTTTT 10560 AACGAAGTGC GTAACATGTT TGGTTACACT GGTACTTACA AGGGTCACTG TGTATCTGTC 10620 ATGGGAACTG GGATGGGAAT GCCATCTATT TCGATTTATG CGCGTGAGTT AATCGTAGAC 10680 TACGGTGTGA AGAAATTGAT TCGTGTGGGA ACTGCAGGTT CTTTGAATGA AGAGGTTCAT 10740 GTTCGTGAAT TAGTTTTGGC GCAGGCGGCT GCAACCAACT CAAACATCGT TCGTAATGAC 10800 TGGCCACAGT ACGATTTTCC ACAAATTGCT AGCTTTGATT TGCTTGATAA AGCCTACCAT 10860 ATCGCCAAAA AACTTGGTAT GACTACTCAC GTTGGGAACG TTTTGTCATC TGATGTCTTT 10920 TACTCAAATT ACTTTGAAAA GAATATCGAG CTTGGTAAAT GGGGAGTCAA GGCTGTGGAA 10980 ATGGAAGCAG CAGCTCTTTA CTATCTTGCT GCCCAATACC ATGTTGATGC GCTAGCTATC 11040 ATGACCATCT CTGATAGCTT GGTCAATCCA GACGAAGACA CAACTGCAGA AGAACGTCAA 11100 AATACCTTCA CTGATATGAT GAAGGTTGGT TTGGAAACCT TGATTGCAGA ATAATTATAG 11160 11220 CAAATTTCGT CCTTTCTTTT TTGATATTCA GGGCGATAAA AATCCGTTTT TTGAAGTTTT 11280 CAAAGTTCCG AAAACCAAAG GCATTGCGCT TGATAAGTTT GATGAGATTA TTGGTCGCTT 11340 CCAGTTTGGC ATTAGAATAG TGTAGTTGAA GGGCGTTGAC GATTTTCTCT TTGTTCTTTA 11400 GAAAGGTTTT AAAGACAGTC TGAAAAAGAG GATGAACCTG CTTCAGATTG TCCTCAATGA 11460 GTCCGAAAAA TTTCTCAGGG TCTTTGTTCT GAAAGTGAAA AAGTAAGAGT TGATAGATCT 11520 GATAGTGGTG TTTCAAGTCT TCTGAATAGC TTAAAATCTT GTCAAGAATT TCTTTATTTG 11580 TTAAGTGCAT GCGAAAAGTA GGGCGATAAA AACGTTTATC GCTSATTTTA CGACTATCCT 11640 GTTGGATGAG TTTCCAGTAA CGCTTGATAG CCTTGTATTC ATGAGATTTT CGTTCAAACT 11700 GATTCATAAT TTGAACACGA AAACGACTCA TGGCACGGCT GAGATGTTGG ATAATATGGA 11760

AACGATCTAG	AACGATTTTA	GCACACGGAA	AAAGCTGTTT	AGCCAAGTCA	TAGTAAGGAC	11820
TAAACATATC	CATCGTAATG	ATTTTCACTT	GACAACGAAC	GGCTCTATCG	TAGCGAAGAA	11880
AGTGATTTCG	GATGACAGCT	TGTGTTCTGC	CTTCAAGAAC	AGTGATAATA	TTAAGATTAT	11940
CAAAATCTTG	CGCAATGAAA	CTCATCTTTC	CCTTAGTGAA	GGCATACTCA	TCCCAAGACA	12000
TAATCTTTGG	AAGCCGAGAA	AAATCATGCT	CAAAGTGAAA	GTCATTGAGC	TTGCGAATGA	12060
CAGTTGAAGT	TGAAATGGCC	AGCTGATGGG	CAATATCAGT	CATAGAAATT	TTTTCAATTA	12120
ACTTTTGAGC	AATTTTTTGG	TTGATGATAC	GAGGGATTTG	GTGATTTTTC	TTTACCAGGG	12180
GAGTCTCAGC	AACCATCATT	TTTGAAsAGT	GATAGCACTT	GAAACGGCGT	TTTCTAAGGA	12240
GAATTCTAGA	AGGCATACCA	GTTGTTTCGA	GGTAAGGGAT	CTTAGACGGT	TTTTGAAAGT	12300
CATTTTTTTT	CATTAGACTT	CCACAATCAG	GGCAAGATGG	AGCCTCATAA	TCCAGCTTAG	12360
CGATAATTTC	TTTGTGGGTA	TCCATATTGA	TGATATCTAG	AATCTTGATG	TTTGGGTCTT	12420
TAATATCGAG	CAGTTTTGTG	ATAAAATGTA	ATTGTTCCAT	ATGATTCTTT	CTAATGAGTT	12480
GTTTTGTCGC	TTTTCATTAT	AGGTCATATG	GGACTTTTTT	TCTACACAAA	AATAGGCTCC	12540
ATAATATCTA	TAGTGGATTT	ACCCACTACA	AATATTATAG	AGCCCAAAAA	GGAAGCCCTT	12600
TATGAATTGT	AGGACTTCCT	TTTCTTATCC	AGAAATTGAT	CTAGCTCTCT	CTGATTTCGA	12660
AGAATAGTGA	CTTTATGTGA	ATATTCTTGG	CAAAGTTTTT	GGTAATTTTC	TTTTTGAGTT	12720
TTGCGGACGC	CCATCCCAAA	GAATCCATCT	GATAAACTCC	CACTCAAAGC	GTTCAGGGCA	12780
ATCTACCGCC	ATACTTTCTC	TGACTTTTCC	ACGGTATTTA	AGATAACGCT	TAAAGGCTCT	12840
AAAGAGACAG	GTCAATGGCG	AAAAATTGAG	AAAGATGATT	TGGTCAGCTT	CTTGCATTCG	12900
TTCTTGGTAG	TAGCACCAAG	AATAATTACC	ATCGATGACC	CAAGCTTTAT	GCTTGGTGAG	12960
AAAGTTTTT	ATCTCGGTTA	ACATCCATTC	GCAGTCACTG	TCTTGCCAAC	CAGGTTGAAA	13020
TTGGAGTGTG	TCCATGTGCA	GTTTTGGAAT	GGAGTAGTAG	TTAGATAACT	TTTCTGCTAT	13080
AGTTGACTTA	CCAGAACCAG	AATATCCGAT	AATTGCGATT	TTCATTTTCT	ACCTTTTCCT	13140
ATTTGGAGAC	AAAAAAACAG	CCTCTATGGA	CTGTTTCTTA	TTTAACAAGT	TTAGCTGAAA	13200
GACGAGCTTT	ATCGCGGCTT	GCTTTGTTTT	TGTGAATCAA	ACCTTTAGTT	TCTGCTTTAT	13260
CGATAGCTGA	GCTAGCAGCA	CGGAAAAGTT	CTTCAGATGG	GTTTGCTTCG	AAAGCTTTTA	13320
TAGCAGTACG	CATAGCTGAT	TTTTGAGCTG	AGTTCTTTTC	GATTCGTCTA	ACGTTCAATT	13380
CAGCGCGTTT	GATAGCTGAT	TTAATGTTTG	CCAATGGTCT	TACCTCCATA	TTTACTAACT	13440
(2) INFORM	ATION FOR SE	EQ ID NO: 12	29:			

890

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8512 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

CCTTTTTTCA	AAAACTAGAT	ACTAGTCTAT	CAAAAGTAGG	AAAGGGTTTC	AAGAAATTG	60
ATTGGAAATT	TTTTGAAAAT	CATAGAACTA	TTAGCTAATC	CCTAGTATTG	AAAAGACTGG	120
ATAGCTTCTT	TCAGGTCATC	TTGTAAACTA	TTTCTCTGGT	CAAGTTGGAC	ATAGACTTCC	180
ACCAGACAGG	ATCTAAAGTT	GGAAAATTTG	TAAAAATCCT	CCCTTTCTTC	TATCGGAAAA	240
TCAACAGTTT	TTATCCAAGA	AGCTACTTGT	TCTTGCTCCA	ACTTCCCTTG	TAAAATAGGT	300
TCATAGATCA	CTCTTGCTAA	ACGCCAATCC	TCATCATCTG	TAAAGCGAAT	CGACATTCTT	360
TTAAATAGTT	GGCCAAGTAT	ATCAAATACT	TCATGAACTC	TGTTTTTAGG	AAAGTCTGGA	420
TGACAAACCA	CCTCTGTCAG	TAAATCGGCT	CCATGTGCAA	AAGCGTGAAC	CCAACCATAC	480
TGACTTGAGA	AACCCCTTGT	ATCCTTTTCT	TTTGAAAGAT	AGTGCAAGCC	TTGATTTAAA	540
AGGACATTAC	GAATTTCTGG	AGAAGGATTT	CCCAAATGAT	CAAACAACCA	CTGGATTTCT	600
TCCTGGTTAT	AATTTGGTTT	TTCTTCTGCT	ATTTTTCTTA	GTAAATCTTG	ATACATGGTC	660
AATACCTCTA	CATTTCTAGC	AACTGTTCAA	AAAGGCAGTC	TTAAATGACT	CAATATTGAA	720
TTCTCAATTA	AATACAATCT	GATATAAAAT	GACGTAAATA	ACTATCAATA	CCAGTTCTAC	780
AGTAAGTTCA	AATTTAACAT	CACGACCTTC	AACGACATTT	TTGAAAATAG	СТАСААСТАА	840
GACAAATAGA	ATGACGCTTA	ACAAGCCCAT	AAACATCATT	СТААААААТТ	TTTCTATTCC	900
CCTACTCTCC	CAACTCAGCA	CTATAGGAGA	TAATCTGGTC	AACTGTGTCA	GACAAGAATT	960
GGATGGTATC	ACGGAGTGGT	TTGTCTGTTG	AAATATCAGC	ACCGATAATC	ATGGCTGACT	1020
CAAGTGGTGT	CTTGCTACCA	CCTGATTTGA	GGAGATTGAG	CCAGTCTTCA	GCTCCAGTTT	1080
CAGAATGTTT	TAGATGAAGG	TAACCAGCAG	TCGAGATAAC	TAGTCCTGCT	GAGTAAGTGT	1140
AACTATACAA	GCCCATATAG	TAGTGAGCTT	GGCGCATCCA	AGTCAGAGTT	GCATCATCGT	1200
CAATTTCAAT	AGCATCTCCC	CAGAAATCCG	TCAAAACTTC	CTTCATAATG	CTGTTGAGCT	1260
TGCTTGCTCC	AAAGGTCTCC	CCTTCTTCAA	TCAATGTATA	CACCTTACGC	TGGAAGGCGG	1320
CTTCCAAGAG	GTGGGTGATA	AAGTTATGGA	AGTAGGTGTC	TGTCAAGCGA	TGAGCCAGAG	1380
CGAAGCGTTT	TTGACGTGGG	TCATTAGACT	GGTTCTCCAA	GTAATCACTG	AGTAGCAATT	1440
CATTGAAGGT	TGACGGTGCT	TCAACATAGT	AGGTCGACAT	ATGGGCATTG	AAGTAACTTT	1500

GATGATTGTC	TGAAAAGATG	AATTGACCAG	AATGCCCGAT	TTCATGAATC	AAGGTATAGA	1560
CATCGCTCAA	ACGGCCTGTC	CAGCTCATGA	GTACATAAGG	GTGTACGCGA	TATGGGTCCG	1620
CCGCATAACC	ACCGGAATCC	TTGCCACTGT	TAGCAGCAAA	GTCCACCCAG	CGCTCTTCTT	1680
GGTAACGAGC	AACTTCCTGA	CAATATTCTT	GCCCCAAAGG	TTCTACCGAC	TTCATGACCA	1740
AATCATAGGC	ATCGTCAATA	GTCACTTCAG	GATTCAGGGC	GCTGTCCAAG	TCCAATTTCC	1800
AGTCTGCAAA	GGTCATCTTT	TCAAGACCAT	TTACCTTGGC	AACATGCTTG	AGGTATCTCT	1860
GAGCGACTGG	TGCAAAGTCC	TTCATGATGA	GGTCAATCTG	GCGGTCAAAC	ATGACACGGT	1920
CCACTTCTTG	TTCAGCTAGA	AGATAGTCAA	AGACAGAGTC	GTATCCCTTC	ATATCAGCCA	1980
AGAGTTTTTC	AGACTTGACC	TGAGCCAGAT	AGGCTGCTGC	AGCCGTATTT	TGGTGCTTAC	2040
GAAGTCCCTC	TGAGAAGGAA	CGGAAGGATT	TCTCACGAAC	CTCAGCATCC	TCATGGTTTT	2100
GGTAGAAATT	CTCATAGGTC	ACAAAGCTGT	TTTTGTAGGT	CTTGCCATGG	GCTTCAAAGT	2160
CAGCCATTTC	AAAATCCCCA	GCTCGCATCT	TAGTATAAAT	GTCCTGCGGA	CTGTAGAAAA	2220
CTTCACCGAG	ATTTGTCAAG	GCCTTCTCCA	CATCTGCCCC	TAAGTAGTGG	GCTTTTTTGA	2280
TTTTAGCCTG	ACGAATGGCA	GCTGTTAAAT	GTGGCAATTT	ACCCAAACGG	TCCAAGACTT	2340
CCTCATCTGC	TGCCACCAAG	GCATCGTCAA	AGAAGGTCAA	GGCTACGCTG	GCATCTGTTT	2400
CAAATTCCAT	CCCAGCTTGG	GCAATATTGG	CAAATTCGTC	ATTGCTATAG	TCCGTCGTCT	2460
GAGGCATAAA	ACCATAGTTG	CCAATATGGC	TCATCTGAAT	GTAGATCTGT	TCCAATTCCG	2520
CAAAGGCCTT	CTCGAAATCC	TCAAAAGTGT	GAAGATTGCC	CTTGTAATCA	CGGCTAAACT	2580
GGTTGATGTC	TTCGCGAGCT	TTCTCGATTG	CACGCAAGAA	ATCCTCACGG	TCTTGGTATA	2640
GGGCTGTTAA	GTCCCAGAGT	TCCTTCTCTG	GAAATTCTGA	ACGGTGTTTT	TGTTCCATTT	2700
TCTTCCTCTT	ATTTCTCTAA	TTCTACTAAA	ACACTAAGGG	CTGATAAAGC	GTAAAGCGGT	2760
GCTGTTTCTG	CTCGCAAAAT	ACGAGGACCT	AGGCCTGCCA	AAACGGCTCC	TTTAGCTTCA	2820
AAACTTTCGA	TTTCTGCAGG	TGAGAGACCG	CCTTCTGGAC	CAAAGATAAA	GAGCAGTTTG	2880
GCTCCTGTTT	CAAGACCAGT	GACTGCTTGC	AGAAGCGCAG	CGGCTTCTCC	TTCTTTAGCT	2940
GATTCTTCAT	AGGCTACTAT	GATAGAGTCA	AACTGGTCCA	GCTGAGCTAG	AAAATCTGCT	3000
TTTTTCTCGA	AAAGTTTAAT	ACTTGGTACA	ATATTACGCT	TGCTTTGCTC	GGCTGCTCCA	3060
AGGGCAATTT	TTTCTAGTTT	TTCAACTTTT	TTACCCAATT	TCTTGCCATC	CCACTTGGCA	3120
ACTGACCAGT	CTGCAGGAAA	GGCCCAGATT	TGGCTAGCCC	CCAGTTCGGT	TACTTTTTGA	3180
GCGATGAACT	CCAGCTTGTC	TCCCTTGGGA	AATCCAGATG	CGATGGTCAC	TTGGACTGGT	3240

892 AGTTCCACAT TGTCATTTAA TTCTTGGACC AACTCAAACT GACGATTTTC CATATCCAGC 3300 ACGCGCCCA AGCGCTTGAT GCCATCATCA AAGACTAAGG TAACCTCATC CTCTTCTTTC 3360 AAGCGCATAA CCTGAAACAT ATGCTTACTG GTTTCCTTGT CCTCGATAGT GACAGGAGAG 3420 ATAGCACTGC CTTTTACAAA ATACTGCTGC ATGCTAGCCT CCAATCACAC CAGAGATATC 3480 CTTGGTTTTC TTAAAGACAC AGGTATTCCA TTCCCCTTGA ACCATGTGAG TTTCGAGGAA 3540 AAATCCAGCT GACTCAGCCG ACTGGCGCAC CATGTCCAAC TTGTCCTTGA TAATGCCACT 3600 CATGATCAGG TAGCCTTCAT CCTTTACCAA GCGATAAGCA TCGTCTATTA GATGAATGAG 3660 GATATCCGCC AAGATATTAG CCACAATCAC ATCTGCCTCA ATTTCCACAC CCTTAAGCAA 3720 ATCTCCAGCC GCTACATGGA TATTTTCCAT GCCAGGGTTG AGCTCAATAT TTTCCTGAGC 3780 CACACGAACC GCCACATCAT CCAGGTCATA GGCGAAAATT TCTTTAGCCC CCAGAAGCGA 3840 GCTGGCAATA GAGAGAACCC CTGAACCAGT CCCCACATCT AGCACCGTTT CGCCACCACG 3900 AAGAACCTGT TCCAAGGCAA AAAGGCTCAT CTTGGTAGTT GGGTGGGTTC CAGTACCAAA 3960 AGCCATGCCA GGATCCAGCT TGATAATCAT TTCCCCCGCA GTCGCCTCAT AGTCTGTCCA 4020 AGAGGGAACG ATGGTCAAAT CATGAGTGAT ACGAGCAGGT TCATAGTATT TCTTCCAGTT 4080 GTCTGCCCAG TCTTCCTCAG CCAAGGCAGT CGTACCTATT TTTAACTCTC CCAAATCCAT 4140 AAAATCTGTC AATTCTGCTA GACGAGCCTG CAAATCCGCC TCAACCACTG TCACATCCAC 4200 CGTGTCAGGG TAGTAGGCTG TCACTACGAT TTCTTCTTGC TGCTCCACCT CTGGGAAAAT 4260 CTCTCCAAAG CGGTCCACAT TTCCCACATA GTCCATACTG TCTTCGATTG CGACTCCTTG 4320 CGCTCCCAGC TCAATCAAGA GATTGGAAAC CAACTCCTCT CCCTCACGCT TCACTGTAAC 4380 TTTTAACTCT TGCCATGTTT CCATTATTAA TACCAAGCCC GTAAAACACA AAACCAAAAT 4440 AGGAAATTCT CTGAAGACGC TTGTGTCTAA GAGAAGTTTA TCTTTTTGGC ACAGTGTTTA 4500 GGGCGGGTTC AGTTTAGAAA TGTAACTGAA CCATCCTTTC TAATCACTTA CTTTTAAATA 4560 ATCTTTTAAT CTCTCTTGCA ACTGAGGCAC AACTTGACTG GAACTAAGAA ATTCCTCAAC 4620 ATTCATCAGC TGATAGCCCT GTCCTTCATC TCCGAAGATG ATATTGTCAA ATTGTTCTTG 4680 TCTTAGCTGA CCAACCATAA AGACCGATTT CTTGCCTTTA AAAATTACGC TAGGATAAAT 4740 CTTGCTCCAA AGCAGACAGT CTTCATCTAA ATGAATTCCC AGTTCCTCAT AAACTTCACG 4800 CCGAGCGCAT TCAAAAGGGC TTTCGTCCCC TTCACGGCCA CCACCTGGCA GTTCCCACAT 4860 ATTGGCCCAG GGAATACTTG CCTTATCATC GCGTAAGATA GTCAAAAGCT TATCCCCACA 4920 AAACAAAGCA ATCTTGCAAC CTGTGAAATC AGAAATTTCT AGTTCCATCT TCAGTTCCTT 4980 CTAACATTTC CTTTTCCAGC TCGGCTAACC AGTTTTCATA ATATCTTTTC TCATCCCTCA 5040

ACATTCGACT	ACTATCCATT	TTCTGTCTAG	CAATCTTGAG	AGCCTTACGA	GTTCGATCTA	5100
CATCTTTCTT	CACCTTTAAT	TGATACCAGG	CTTGTATCAC	TTGAAGATTG	GACAGTTTGA	5160
GAGACAGAAA	CGATTTGACC	TGTCGAATAC	TAGCATATTG	CTCCGCTTGC	TCAAAATCTC	5220
CTTCCAACAA	GGCGATATGA	AGCAGGGATA	GTTGGGCAAC	TGTCTGCATC	ATCGGAGTAG	5280
TTGTCCTCTC	AAGTAATGCT	TGAAACTGCT	GTTTAGCTAC	TTCTTCCTTC	CCTTCCAAAA	5340
TGGAAACTTC	ACCTTGCATA	CCTAATACAC	CATCCGCAAA	ACTCCCTCGT	GCATCCTCAG	5400
GAACTGCTTG	AACAAAGTCT	TTCAAATCAT	ATTCTTGAGG	AGCTAGCAAG	GTCTGGGCAG	5460
AATGTCTCAA	TACCAGGTAG	GCGTATTTGG	TATTTTCAGG	GTGTTGTAGT	AATTCCCAAA	5520
TTTTTGCTCC	ATCGGTGATG	TCGACTGGCA	AAATGTTATT	TAGGAAGAAA	GATAAATTAA	5580
GAAAAATCCA	AGTCCCTGCA	AAATACCAGC	TTCTTGTCAA	AAATCCAAAC	AATATCGCCA	5640
ATAATATCAA	GCCGAGATGA	ACCATCAAGC	CTCCTGAAAG	CATCAGGATG	ATTCTTTGAT	5700
CGCTTTCATC	CTCTTTTAAA	CCAATGTATT	GAGCACCAAC	ATTTTTCAGA	ATGGCTGTTC	5760
TACTAAGATG	AAACCTGCCT	GACTTTTTGG	TCAAAATAAA	ATGTCCTAAT	CCAAAAGCCA	5820
CCAGCCGATA	GCCTGTCAAG	TAGCCACAAA	AAGCATGACC	CAGCTCATGA	AGAATAAAGA	5880
TTAAATACAT	GCTTAGAAGA	GCGAAGGCAT	AACCAAAAGT	AAAGGCTAAA	ACTGCGGAAT	5940
ACCCCAACTC	TGCAAATGCG	ATTGTTCCAC	AAGCAAAAGC	TAGCATAATA	AAGACAACAG	6000
CTAGCACATA	AACCAAATAA	GTCCCAATTT	TCTTCATAAC	ACCTCCAACC	AACTCCTAGT	6060
ATCTTGGATA	AGGATAAAAT	TCTCCCTTTT	CCAAGCCAAT	TTTTCCTTCT	TCAAAGACTT	6120
CTTGGTTCCA	TTCCATGACA	AATTCCTCTG	CTTCTGGGTC	TTCCAAAAAG	TCCATGAGGA	6180
CATCTAGCCC	AACCTCAGCA	GTATCTTTAA	GGAAAAGCGC	AAAATAAGCT	AAAAATTCAC	6240
GGGAAAATCC	TTTTTTAGGC	AGGTAAGGAA	TAACAGTCAA	ATAGTCTTCC	TCATTGACTG	6300
TTGACTTGGC	AGGATTGTAG	AAAAGGACCG	CTTCCTCAAA	AAGAATGTCA	TCTGATGAAA	6360
CCTCTCCGTC	TTCATCCACC	ATCTCCACAC	CGCAGCATTT	TGCGCTTCCA	ATAGAAAACT	6420
CACTTCTACC	GCATGGTTGC	GTTTGTCCCA	GCTAATCTCA	AAGTCAAAGG	GAAAGTTCTT	6480
GTCCAACTCT	TCCTCTAAAA	TATCTAAAAA	TCCGTATGTT	GCCATTTTGT	CCTCTTTCTA	6540
TGCGACTCTT	TAATCGCCCC	GATTGCTCGG	AAATATGCTA	AAATAGATAC	TACCATCTTA	6600
CCACAAAATT	ATTTTATGTC	СТААТТАТАС	CATATTACCT	CATTTAAACC	CTTGGTATCA	6660
GTGATTTTCT	TAAAAGTCTG	ATTTCTTCAT	TTCTCATAAA	AATCAATATA	AAAAGCCCTC	6720
GAAAGGGCTA	ATAAATCTAT	AAAATCAATA	GGCGAGTAAC	TAGCACAAGT	GGACGTGCTT	6780

TTTTATTGAC	TATTACCACG	ATACCACGCT	894 TAATCTTAGG	CTTGAACTTT	CTTATCTGCA	6840
ATAGCGTCTG	TCAAAGTCTG	AGAAAAGTTA	AGCCCCATTT	CTCGTCCCAA	CTTATCTGCC	6900
CATTTTGGTA	TGGTCAAAGT	CTTTTTAATG	GGTTCCTGAC	TTCCTAGGTA	TTCTGATACA	6960
TCAACAGATA	CCATAGAAAT	AAAAGATTTA	TCAAGGTCAT	AGGTTGACAC	GAAATCTTCA	7020
TCATCTTTAA	AAGGATCATT	ATCAATTAAA	GACAAGCTAT	TGATATCTGA	TGGCTGAGGT	7080
AACTCTCCAT	CACTCTCTAT	CAAATCTGCA	ACAGTTATCC	CTAGCCACTC	CGACCCCATA	7140
GCCAAAGCCT	CAGAAATCCC	CTCTCCTTGT	GTAGCTGAGT	ATTCAAAATC	TGGGAAATGG	7200
ACAAAATAAG	TCGCTTCTGT	TCCGTCTGTG	TCGTCATAAT	AAAATAAAGC	TGGATACGTA	7260
ACTAACATTT	CACTACCTCC	ATATCAAAAA	GCAGGGACTG	AATTTTACAA	CCCAGCTTGC	7320
TTTCTTATCC	CTCTTTCAGT	GTACTTATTC	AGCTCACCAT	GAAGGATTGT	GATAGGTCTT	7380
TCCCCTTGCT	TTTCCATTTT	AATATGGGAG	CCTTTACCGC	CTCTAGTCTT	TATCCAACCA	7440
TGGGCCGTAA	GGAGTTTAAC	CATCTCTTTT	TGTGTCATAG	GCATAGCGCT	TTTACCTCCT	7500
GACAACACCA	TTATAACACG	TGTTACACGT	ATTGTAAAGG	AGTGATACTT	ATTATTCTAT	7560
ТАТАСАТААА	AGCCCCTAGA	TGTGGTTCTA	AGGGAAGCCA	ATTTATTCAT	ACCTATTTT	7620
CTAATGAGTA	GTAAAAACTG	CTTCTTTATC	GAGCAATTCA	TCATCTGTAT	AGTCAATTGT	7680
AAAAGTATCT	CGATCTAAGA	CAGATTGAGG	CGGAGTTGAA	TGAATCATAG	GAACACTGCG	7740
TACTCTATAT	TTTTTATCTC	CAATTTTTAC	AAACTGATAC	TCTTCGAAAA	TCAAATTCAA	7800
ACCACGTCAA	CGTCGCCTTA	CCGTACTCAA	GTACAGcCTG	CGGCTAGTTT	CCTAGTTTGC	7860
TCTTTGATTT	TCATTGAGTA	TGATTAACTC	TCAAGTCTTC	GAAATCAGGA	TTTTCAACAG	7920
TTATTACAAG	GAGGCGATTT	ACTACTTCAA	AAACATCAAT	TATTCTATTT	TTCATATTTT	7980
TTCAACCCAT	TATTAGAATG	AACTTCTTGG	TAAGCAAAAT	CAAGTTTAGA	TTTAATGTTT	8040
TCGTACAAAT	CTAAAATCTC	TTTTGGAGTA	TCTTCCCGGA	AGAAAAGTTT	TCTTTTCCCT	8100
GAAATAACTT	GATCACTAAG	AATCCAATGA	CGAATTTGTT	TTGTAAAAAT	CAAAATTTCC	8160
TGACTTGGTA	GTTCCATCAT	TTCCATTGCT	TATCACCTCT	CTTTTCATTA	TAGTTCATAC	8220
AATGACATTC	AGCAATATTA	TTTCTCAAGT	CAGCACTTCC	ACTTCTTTAG	GCTCAACTAT	8280
CCTATTTTGA	GCTTTAAGGA	AAATCAAATC	TCTCATGCTG	ATACCTCTCC	TCATTAAATT	8340
AAATAGTAAA	AAAGATTCTA	TCTCACTCCC	TGATTATTAC	AAAACCATTG	AAATATCACA	8400
ACTAATAGGC	TAGAATGGAC	ATAGTAAGAT	ATAGTAGATG	AGTCATTCTA	CTCAAATCCA	8460
CGTTAGAAAG	GACTGCTATG	CCAGACAATC	TCGCCGTTCG	CATGCGCCCn	GG	8512
(2) INFORMA	ATTON FOR SE	O TD NO: 13	30:			

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 130:

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### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2869 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CTCGTTTCAA	GGTTGAGTCT	CTTGCAAATC	TTGTTCGCGT	TCTTCCTTTT	GCCAAGGCAT	60
CTCTCCCATG	GTTGGTGCcA	GCCATTGTTG	GAATCTTGCT	CTCATTGGTT	CTACCAAACA	120
AGCAAGAAAG	CGATGTTTTT	GAAATGGAAT	AATCACTTAA	ATCACTTTTG	TAGCCAAGTC	180
TACAGGAGTG	ATTKTCTTTT	TTTATCCGAT	GATAAATGTG	TTATAATAGG	TAGCGAAAGA	240
GGTGAAGAAA	TGAATCAAAC	AGTAGAATAT	ATCAAAGAAC	TGACAGCCAT	TGCGtCGCCA	300
ACAGGCTTTA	CTCGTGAGAT	TGCGGACTAT	TTAGTCAAGA	CTCTAGAAGG	TTTTGGTTAC	360
CAGCCGGTTC	GCACATCCAA	GGGCGGTGTC	AATGTAACTA	TTAAAGGTCA	AAATGATGAG	420
CAACATCGCT	ATGTGACTGC	CCATGTAGAT	ACGCTTGGTG	CTATTGTCCG	TGCTGTCAAA	480
CCAGACGGCC	GTCTCAAAAT	GGACCGTATC	GGTGGCTTTC	CTTGGAACAT	GATTGAAGGA	540
GAAAACTGTA	CCATTCATGT	GGCTAGCACA	GGTGAAAAAG	TATCAGGAAC	CATCCTCATC	600
CACCAAACTT	CTTGCCATGT	CTATAAGGAT	GCAGGAACTG	CAGAACGCAC	GCAAGACAAT	660
ATGGAAGTGC	GTTTGGACGC	CAAAGTAACT	AGTGAAAAAG	AAACTCGTGC	TCTTGGCATT	720
GAGGTCGGTG	ATTTTATCAG	TTTTGACCCA	CGAACTGTCG	TGACAGAGAC	AGGTTTTATC	780
AAGTCTCGCC	ATTTGGATGA	CAAGGTCAGT	GCGGCGATTT	TGCTCAATCT	CCTTCGCATT	840
TATAAGGAAG	AGAAGATTGA	ATTGCCCGTA	ACAACTCATT	TTGCTTTTTC	AGTCTTTGAA	900
GAAGTGGGAC	ACGGTGCAAA	CTCTAACATT	CCTGCTCAGG	TAGTAGAATA	TCTGGCTGTG	960
GATATGGGAG	CCATGGGAGA	TGACCAGCAA	ACAGACGAAT	ATACAGTGTC	TATCTGTGTC	1020
AAGGATGCTT	CTGGACCTTA	TCACTATGAC	TTCCGTCAAC	ATTTGGTGGC	TTTGGCGAAA	1080
GAGCAAGATA	TTCCATTTAA	GCTGGATATC	TATCCATTTT	ATGGTTCGGA	CGCTTCAGCG	1140
GCTATGTCTG	CAGGGGCAGA	AGTCAAACAC	GCCCTTCTCG	GTGCTGGTAT	AGAGTCTAGC	1200
CATTCCTATG	AGCGTACCCA	TATTGACTCG	GTGATCGCAA	CAGAACGAAT	GGTCGATGCT	1260
TATCTTAAGA	GCACGTTGGT	GGACTAATAT	GTGCCTTATT	TGTCAGAGAA	TTGACCTCAT	1320
CAAGAAGGAA	GAAAATCCTT	ACTTTGTCAA	AGAGTTGGAA	ACAGGCTATC	TTGTGGTTGG	1380
AGACCACCAG	TATTTTGAAG	GCTATAGTCT	CTTTCTAGCC	AAGGAGCATG	TCAGCGAATT	1440

			896			
GCACCATTTG	AAAAAGGAGA	CAAGACTCCG	TTTTCTAGAA	GAAATGAGTT	TAGTCCAAGA	1500
GGCAGTTGCC	AAGGCCTTTG	CTGCTGAGAA	AATGAATATC	GAACTGCTAG	GAAATGGCGA	1560
TGCTCATCTT	CATTGGCATC	TGTTTCCACG	ACGGACAGGT	GATATGAATG	GTCATGGTCT	1620
CAAGGGTCGT	GGACCAGTCT	GGTGGGTTCC	CTTTGAAGAA	ATGACAGCAG	AAACCTGCCA	1680
AGCAAAACCG	GATGAGATTA	AAAGATTAGT	CAAACGTTTA	TCGTCAGAAG	TAGATAAACT	1740
ATTAGAAATA	AAGGAGTAGA	AATGAAGAAA	AGATACCTAG	TCTTGACAGC	TTTGCTAGCC	1800
TTGAGTCTAG	CAGCTTGTTC	ACAAGAAAAA	ACAAAAAATG	AAGATGGAGA	AACTAAGACA	1860
GAACAGACAG	CCAAAGCTGA	TGGAACAGTC	GGTAGTAAGT	CTCAAGGAGC	TGCCCAGAAG	1920
AAAGCAGAAG	TGGTCAATAA	AGGTGATTAC	TACAGCATTC	AAGGGAAATA	CGATGAAATC	1980
ATCGTAGCCA	ACAAACACTA	TCCATTGTCT	AAAGACTATA	ATCCAGGGGA	AAATCCAACA	2040
GCCAAGGCAG	AGTTGGTCAA	ACTCATCAAA	GCGATGCAAG	AGGCAGGTTT	CCCTATTAGT	2100
GATCATTACA	GTGGTTTTAG	AAGTTATGAA	ACTCAGACCA	AGCTCTATCA	AGATTATGTC	2160
AACCAAGATG	GAAAGGCAGC	AGCTGACCGT	TACTCTGCCC	GTCCTGGCTA	TAGCGAACAC	2220
CAGACAGGCT	TGGCCTTTGA	TGTGATTGGG	ACTGATGGTG	ATTTGGTGAC	AGAAGAAAA	2280
GCAGCCCAAT	GGCTCTTGGA	TCATGCAGCT	GATTATGGCT	TTGTTGTCCG	TTATCTCAAA	2340
GGCAAGGAAA	AGGAAACAGG	CTATATGGCT	GAAGAATGGC	ACCTGCGTTA	TGTAGGAAAA	2400
GAAGCTAAAG	AAATTGCTGC	AAGTGGTCTC	AGTTTGGAAG	AATACTATGG	CTTTGAAGGC	2460
GGAGACTACG	TCGATTAATA	CTCTTCGAAA	ATCTCTTCAA	ACCACGTCAG	CGTCGCCTTA	2520
CCTACTGACT	GCGTCGGTTC	TATTCACAAC	CTCAAAACAG	TGTTTTGAGT	CGATTCGTCA	2580
GTTTTATCTG	CAACCTCAAA	GCTGTACTTT	GAGCAstGCG	GCTAGCTTCC	TAGTTTGCTC	2640
TTTGATTTTC	ATTGAGTACA	AAAAGTAAAC	TTTTCTCTTG	CAATTCCAGA	TAAATAGTGT	2700
ATAATGGATG	GGTATGTGAA	AAACATACTT	GTGGGAGGTA	AAAATCTCTA	ATTACCGCCA	2760
AAACCACAAA	GGAGGATTTA	AAAATGGCTA	AAAAAGTCGA	AAAACTTGTA	AAATTGCAAA	2820
TCCCTGCTGG	TAAAGCTACA	CCAGCTCCAC	CGGTTGGACC	TGCTCTTGG		2869

(2) INFORMATION FOR SEQ ID NO: 131:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6186 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

60	ATAGGCAGCT	CTTTGCCTTC	TTAGCCTCTA	CAGTAACTTT	TATAGGAGTC	CTGAATCCCT
120	CGACAAATCT	CAGTGCTCCA	GCAAGTTCTT	Argcactgaa	TAAAAAAAGA	TCAACATCAT
180	GCTTCTTTTA	TCTCATTCTT	TAATACCAGC	GTTCATTAAC	TATACTGTTT	AGTGGGTAAC
240	TTAAAACCGA	CTCATCTTCA	AAGCACGAAT	CGAGGGAGAA	ACGATAACTA	GTTCTTGCTT
300	TACTGCTCAA	AAGACTAGGA	GACGACGCAA	ATAATAATTG	CTTGGCATCA	TTTGCATACG
360	TTTTGAAAAA	AATATTCAAT	TCTCTACATC	ACCGAAATAC	CAATTCCGAT	TCAAATGAAG
420	AGGATGTGTT	GGTCAAGGAA	TACCATTTTC	ATGTCATCAG	AGTTGAAATG	ITTTTGAACG
480	GGAACTTATG	TTCCACAAAG	TAATATTGTG	GGACTGGTCA	TCTTGTTAAA	GCAATTCTTT
540	GAAATAGTGT	CTCGGTGATA	TGATGTACAG	CCTTACGACA	CAGGCCTTAG	PTTTTCTAAC
600	AAAATAAAGC	ATTATACAAA	TGCTACTTCT	ATCTATACTT	TTCTCTTCTT	AATCATGCTT
660	GCTTTTTGCG	AGAAAAATAG	TATTTTTCA	AAAAAAAGCC	GGATTTTTAG	GCTTGACTAG
720	AACGATATAT	GATGGTTTTA	CACTCTTAAC	TTGGTTAATT	ACAATTGGAT	AACGATTGAC
780	TTTCAGATAC	TCCTACGACT	TCCTTTCACT	AAAACATCTT	ATGTAAATTA	ATTTTTATAT
840	AAGAAAGAAG	GGAAGGCATG	AAAAAGAGGA	ATAGAGGGCA	AGAAGTTTTC	AGATAGCCAA
900	GGTATCATCT	CAAAAAGCCA	TTGGCTGGAT	AACAGGATCC	AAATCATAAT	GTCTCTGGCA
960	CAAAACTCCC	CAAAACCAAT	AAGAATTGGT	GAAAAGAGTA	GAATTTGATG	CCCACAAAGA
1020	ATAAAGAGAC	GACTTTTTCG	AGAGCCAGGA	TAAGACTACT	TCATCACAGG	CCAAGTCCAA
1080	TGTCACTAGA	AACTTGGCAG	AAGACATAGA	CCTATTGACA	TTTTCACAAT	AAAAAGTCCT
1140	CAGACCAGCT	CGAAATGGTG	TTGACCACTG	AAAGAGATTC	GAACCAAATG	GCTACTAGCT
1200	CAGATAATTC	AAGGATTGGT	ACCTGACTAA	CATCTGTAAG	GAAAATCAGG	GCTGACGAAC
1260	ATTCGTTAAG	GATAGACTCG	TCTGGTTTTA	TTGAATGGTT	GAAAATTGTA	ATCAAGATAT
1320	CAGAAGGATG	GATAAATGGT	ATCCAAGCCA	AGGATAGAAA	GAATCTCCAT	TTTAGCCACT
1380	CATCAAAATC	ATTTAGTTTT	CAAAAGATCA	CATAGAGCCC	GGAGAAAGAG	BAGAGGGAGA
1440	CTACTTCTTC	GGCAGGCCAG	CGGTGCGATT	CCACATGTGT	AGGCTAGAAA	CCACTCCGCA
1500	TCCCAGCCCG	CCATTGTCAA	CGTTGGAATG	TCACCAAGAG	AAACCTGTCG	rgccttagta
1560	AACCTAAGTG	TCACGTTCCA	GATTAACTCT	CCCCAACCAT	AAATAATTGT	AATATCAGTC
1620	GCTTCACTCG	ATATAAACCG	TGGTTTTCCG	TGATGGCATT	TTGTCCATAA	CTCAACCGCC
1680	CGCGTTCCGT	GGCAAAAGAC	GCCAGCACCT	TAATCAGTGA	TCAAGCAGCG	TGTCGCTACT
1740	TAGCAAGAGT	CCCTTTTGAA	AAAATGGGCA	TGGTTCCGAT	AGGTCAGGAT	CGGGATGTTG

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TGCTGTGGCA	AATTTTTCAT	AGTCGACTTG		CCAACTACCA	CGTAGGCAGG	1800
TTTTTCCTTG	TCTTCCACAT	AACCAGCCGC	CTTGATGGCT	TCCTTGAGTC	CTGCTTCTCC	1860
GACGACATAG	ACGGTCTTTT	CAAGCCCCAA	ATCATTCATA	TAGTCGATGG	TTGCCAAAGT	1920
CGCTGTGTAG	ACAGTCGATA	GGGGCGTATC	GATATTAAAA	TTCTGAGCCA	ACATCTCCTT	1980
AACACTCTCT	GGAGTGCGGG	TTGTATTGTT	GGTTACAAAG	AGATAGGGAA	TGTCCCGCTT	2040
TTGCAATTCA	TGAACAAAAG	TCTCTCCAGC	AGGGATTCGG	TCTTTCCCCT	TATAAATGGT	2100
TCCGTCTAAA	TCAATTAAAT	AGCCTTTATA	TTTCATCTAT	TTCTCCCTAA	GCCTTTTTTA	2160
TTTCTTGCCA	AGTAATGATT	GCTTGGGCAT	TGATAACCCC	ATCACTTGTA	ATTTCATGCT	2220
TGCTTTCCAG	TCCAGTCCGT	TCAACAGCCG	ATGTAATCAC	CCCACCTGGT	CGAACTTCCT	2280
TGACATACTT	GAGGTTGATT	TTCTTGGGAA	TATAGTGGGT	CAAAAAATCC	GCTCCCATGA	2340
CCTCAAAAAT	CCAGTCCAAG	TATTTACTGT	TATTGACATG	ACCATTCATA	TCCAAGTCGT	2400
AAAAACGAAC	ATGGTAATCC	TTGCTGATCG	GTTCTTCCAA	GGACTCATAC	TTCGGTCCAC	2460
GGATAAGTTT	TTTATCAAAA	TCAGACTGGT	AAGGAGCCAC	AATCTCAGGT	TCAACAACAT	2520
GGACTTTTCG	ACTGTCGCGG	TCCATGAGAA	CAAAGGTCGC	CATCATGTGG	ATGAGCTCCT	2580
GCTCCGCTTC	АТТАТАААТА	GTAAAGCGAC	GGTAGCAAAA	AAGTCGATTG	TAGCTCAAGG	2640
CTTCCGTTTC	GATGGTAATT	TCTTCCGCAA	AACGAGGCAA	ACGAACCACC	TCAATATCAT	2700
ATTCTACGAT	AATCCAGACC	AGATTATATT	CTTCCAAAAT	GGCCTTATCA	CTAACTCCCA	2760
GTTCAATCGA	CTGCATCCCT	GAAACTTGCA	GTGACAGCAA	AATCACATCT	GGAAGTTTGA	2820
TATGACCGTT	CATATCAGCC	ATATCAAAAG	GAATTTTCAT	TTTCATTTGA	TAAGTTAAGC	2880
CCATGATCCT	ACTCCAAAAT	AAATCGTTCT	GCTACAGTAT	CTCCCAAAAA	GAGACCTCTC	2940
TTTGTCATGC	GAACGTGGTC	ACCCTCAATC	TGCATGAGGC	CTTGTTGAAC	CAAATCTCTG	3000
ACAATTTCTC	CATAAAGTCC	AGCAAAAGAC	TGTCCAAATT	TTTCCTCAAA	TCGCGCCATG	3060
GAAACCCCGG	ATTTCTTGCG	GAGTCCCAAG	AACATTTCTT	CTTCCATTTG	CTCCTTTTGA	3120
CTCAGGTGAT	CTTCTGTAAT	ACAAGCATTG	CCTTCCTCAA	CCGCACTGAG	ATAATGACGA	3180
ATGGGACCAT	GATTTTTATA	GCGTACTCCA	TTGACATAAC	CAGATGCCCC	TGCACCAATA	3240
CCATAGTATT	CAGCATTGTC	CCAGTACATG	AGATTATGAC	GACTTTCAAA	ACCGGGTTTG	3300
GAGAAATTAG	AAATCTCATA	ATGCTCAAAA	CCCGCTCGCT	CCAGCTCTGC	AATGATGTAC	3360
TCAAACATCT	CCGCTTCTAG	TTCCTCCTTA	GGCAGAGGCA	ATTTCCCACG	TCGCATCCGG	3420
TTCATAAAGA	CCGTATGGTT	TTCTAAAATC	AAACTATACA	AACTCATGTG	GGGAATATCC	3480
AATCCAATGG	CTTTAGCCAC	ATTTTCCTTT	ACTTGCTCCA	TGGTCTGACC	AGGCAGAGCA	3540

TAAATCAAAT	CAATGGAGAT	ATTGTCAAAA	CCAGCCAGTT	TCAGGCGATC	GATATTTTCA	3600
TAAATATCCT	TCTCCAAATG	ACTGCGCCCA	ATCTTTTTCA	ACATCTTATC	ATCAAAGGTC	3660
TGGACACCTA	GCGAAACACG	ATTGACAGCC	GAATTTTTCA	AAACAGCTAT	CTTATCCGCA	3720
TCCAAATCGC	CTGGATTGGC	TTCAATGGTC	AACTCTTCCA	AGACAGACAA	ATCCAAGTTT	3780
TTAGTCAAGC	CATTCAGTAA	CACCTCCAGT	TGCGGAGCCG	ACAGGGCTGT	CGgTGTTCCA	3840
CCACCGATAT	AAAGGGTTGA	CAACTTTTCA	ATATCATAAG	AACGAAACTC	TTCCAGCAGA	3900
TGCTCTAAAT	AGCTGTCGAC	TGGCTGATTT	TTGATGAAGA	CCTTTGAAAA	ATCACAATAA	3960
TAACAAATCT	GGGTACAAAA	TGGGATGTGC	ACATAGGCTG	ACGTTGGTTT	TTTCTGCATA	4020
GTAATTATTA	TACCACAAAG	ACTAGATTCC	AGATAAAAAT	CACCATCCCC	AGATACATAG	4080
TCCGTCCGGA	GATGGTGATG	GTTTATTCTT	CTGTTATATC	AATCACAATC	TCTTCTGAGT	4140
CATCAAGAGC	TTCGGCTTTT	TCTTGCCATT	GCTCCTTGAG	ATTATTTAAT	TGATTTTTTG	4200
ATGCTTCTGT	CGCTTGAAAA	GCATAGGATT	TAGTTTGAGC	AAGTATACTG	TCCACAGTGA	4260
TTTCACCTGA	CTCAACCTGT	TCTTTTGTTT	TCAGAACAAA	ATCTGTAGCC	TGCTCCTTAA	4320
CTTCTGTCAG	TTTTTCACAG	ACTTGCTCCT	TGGCATACTC	CGGATCTTCT	CTCAAATCAT	4380
CTAGAAAATC	TTGAGCCTGA	CTGCAAACTT	GTTTGCCCTT	ATCACTTGTT	AAAAACAAGG	4440
CAAGAGCTGC	ACCTGAAACG	GTTCCTAAAA	GGATTGAGGA	TAATTTACCC	ATAAGGATTC	4500
TCCTTTTTTA	TTTTTTGAAA	AATTTACTTG	CAAGACGAAG	AGCTGACAGA	CTTGCACCAG	4560
TCTTGAGTGT	TTTTGAACCA	GCTGATGAAG	CTTTCTTGCT	CAAGACACGC	GCATGGTCAT	4620
TGAGGTCTGA	AACAGATAGA	GATAAATCTG	CAACAGCACT	GAAGAGTGGA	TCAATCGTAG	4680
CCACCTTGAC	ATTGATATCA	TCTGCCAAGA	CATTGACCTT	AGCCAACAAC	TCATTGGTGT	4740
GATGCAAGGT	CACATCCACA	TCTGAAGTCA	AGGTTTTAAT	CGTCTTTTCT	GTTTCATCGA	4800
TGACACGACC	AAGCTTTTGT	ACAGTAATGA	TCAGATAGAC	CAAAAAGACA	ATCAAAGCTA	4860
GGGCAACAAG	AATATATGCA	ACTTCTAACA	TTTAGTTTTC	CTCCTCTGTA	ATATAGTAAG	4920
GGGCCTTCTT	TCGATTTTGA	TAAATAACGA	TCATTATACC	GAGACCGATA	AGGACAACTG	4980
ACAGCCATTG	GGACACTCGA	AAGCCGAAGA	ACATGAGACT	ATCTGTTCGC	ATACCTTCGA	5040
TAACCATACG	ACCGAAACCA	TACCAAATCA	AGTAAAAGGC	CGTGATATGA	CCTCGTCTGA	5100
GACTCTTCCA	TTTCCGTCTA	AAAATCAGAA	TCAAGGCAAA	GCCAAGCAGA	TTCCATAGAG	5160
ACTCATAAAG	GAAAGTCGGT	TGACGGTAGC	TCCCCTCAAT	ATACATCTGG	TCACGGATAA	5220
AGCCAGGTAG	ATAATCCAGA	TTATCCACTG	TTGCACCATA	AGCTTCTTGG	TTAAAGAAAT	5280

900 TACCCCAACG CCCCAAACTT TGAGCAATCA TAACGCTAGG CGCCGCAATA TCTAGAAAAT 5340 CCCAAGTATT GATGAGTTTA CGGTCAGCAA AGATATAGAG CACAAGAGCC CCAGTTATCA 5400 AACCACCGTA AATGGCCAAA CCACCATTCC AAATGGCAAA AATCTCTCCT AAATTCTGAC 5460 TATAGTAATC AAATCGGAAA ATAACATAGT AGAGACGAGC TCCTAAAATA GCCAAGGGAA 5520 AGGCTACTAA GATAAAATCT AAAATATCGT CTGGTATGAT CTTCTTTCTA GGTGCTTCTT 5580 TCATGGTCAA ATAAACCGCA AGAATCAAGC CTGTCACAAT ACATAAGGCA TACCAACGAA 5640 TGGCTAGGGG TCCTAGTTGA ATAGCAATTG GATCAAGCAT TTTGCACCTC ATTTCGAGCG 5700 ATTAGACTTG TCAGTCGTTC GTCGAACAAA CGGGTCGCAT CAAAGCCCAT TTCCTTGGCA 5760 CGATAATTCA TGGCAGCTGC CTCAATCACA ACAGAGATAT TACGACCTGT TTTAACTGGA 5820 ATACGAATAC GAGGAATGLA CGCCAGAAAC TTCAAGTTCC TCTGCATTAT TTCCAAGACG 5880 ATCAAAGGTC TTATGCGTAT CGTAATTTTC CAAATAGACA GCAAGCTGAA CCTGTGAAGA 5940 ATCCTTGACA GCACTCGCAC CGTAGAGACT CATAACATCG ATAATACCAA CCCCACGAAT 6000 TTCAATCAAG TGTTTCAAAA TTTCAGCTGG TTCACCCCAG AGAGTAATCT CATCCTTGGC 6060 AAAGATATCG ACACGGTCAT CGGCTACCAA ACGGTGACCA CGTTTGACAA GCTCAAGACC 6120 TGTCTCGCTC TTACCAATTC CACTATCTCC CTGAATCAAG ACGCCCATCC CATAAATATC 6180 CATCAA 6186

#### (2) INFORMATION FOR SEQ ID NO: 132:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9541 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

GAAAATCACA	ACCCTTTTTG	CAAAATTTTT	GAGATTATTT	TCACAAACTT	GATTTTTCAA	60
AGTATACTCA	ATAAAAATTA	AAAAAATCCA	CTACGTCAAG	GCGAGGCTAA	TGTGGTTTGA	120
AGAAATTTTC	GAAGAGCGTG	AATGAGTATC	ATCTATAGTA	АААТААААА	ACTGAACAAT	180
TTGGTTGGGG	ACAGCCAAAC	CAATTTCTCA	CAATGTTTCA	GAAACAAGGG	TGTGCTATTC	240
CAATTTCAGC	CTACTATAAC	TGTCATAGAT	TGCTGAAACA	AAGTCTAGGT	AAAAGTCTTC	300
АТААТААААА	GACCTCCTAT	CAAGTGTTCA	AAAACTTTGA	TAGGAGGTCT	TGTTTTGTGA	360
AAATATTTAT	CAAATTTTCT	ATACAAGTGA	GCTGTTAGCC	AGGTTCTTTC	TATTCTTTCA	420
ATTTCAATGA	ATGGATTTTT	TACTAATACT	CATAACTGGG	AATTTGTCTG	TGTAAAAATA	480

GCGAGATAGA	TGGTATTTAT	AAAACACTCA	AGACAGCTAG	ACTAATATCA	TTTAAAACAT	540
TATCTTCTTT	TGAGCGACTG	TTGGTTACCA	ACATAGCTAA	ATTTCCTGCA	TTTTCAAATT	600
GATAGGGTTC	TGATTTAGCA	TTCACAACCA	CCAAGAGGTG	TTCTTTGCCG	TGAACTTCAT	660
AGATAAGGTA	GCCGCTATGT	TCAATCGCAG	AATGCACAAA	GACATGATGG	TAAATTTCAT	720
CATAGCTAGA	GTAAGAAAAG	GCACCAGTTT	TTGTCTTCAA	TCGGATGACT	TGACGGATAA	780
ACTCAATACT	GTCTTGACGC	TCATTAATCA	AGTTCCAGTT	CACTTGGTTC	ACACTGTCAG	840
GAGCATTATA	GCTATTCATC	GCACGCTCTC	TATCATCATG	GGTCAACTCA	CCATTTTCAC	900
CAGTCGCAAC	CAGTTTGGTA	CGACCAAATT	CTTGACCGAT	TTCCATAAAG	GCCATCCCCT	960
GCATGAGCAG	ATTCATGGCT	GTGGCAGTTT	CGACCTTGCG	CATGATTTGC	TCTGAACTTT	1020
GGTCTGGATG	AAGGGTTGCC	AATAAATCGT	GAAGATTGTA	ATTGTCATGG	GCTTCTACAT	1080
AGTTAAGCAC	CTGATTTGGA	TGTGTATAGC	TTCCTAATTC	ACGACTTCCT	AGGATTGCTT	1140
TAGCTAGAAT	TGGCTCTGTC	GCAGCACCAC	TGACAAAACC	TGACTTGATA	GCACCATAAA	1200
CTTCTCCCCC	TTTGACAGCA	TCGCGCTGAT	TGTCATTAAA	GAAACCAATA	TTTGGCATCT	1260
GGTAGGCATT	GTCCTTCTTG	GCCTTATCAT	AAGGGGCAAG	ACCTGTTCCC	ATATCCCATC	1320
CTTCTCCATA	GAGGATAATG	TTGGAGTCGA	TTTCATCCAA	GCTTTGACGA	ATCATCTGCA	1380
TGGTCTTGAC	ATCATGAATC	CCCATCAAGT	CAAAACGGAA	GCCGTCAATA	TTATATTCCT	1440
GCACCCAGTA	TAGAAGAGAA	TCAATCATAT	ACTTGCGAAA	CATTTCGTGT	TCACTGGCTG	1500
TTTCATTTCC	AACACCCGTT	CCATTCTGGA	AGGTACCATC	TGGATTCATA	CGATAATAGT	1560
AATCAGGGAC	TGTTGTTTGG	AATGGTGCAT	CAACAACTGA	GAAGGTATGG	TTATAGACTA	1620
CATCCATAAT	GACTCCAATA	CCCGCATCGT	GATAAGCTTG	AACCATCACC	TTCAAATCAC	1680
GAATGACCTG	AGCTGGATCA	TCTGGATTAG	TTGAAAAACT	AGTTTCTGGC	GCGTTATAGT	1740
TTTGTGGATC	ATAACCCCAG	TTGTAGGTTA	CATTTCCATC	CTCATCGTAT	TCTTTATGAC	1800
GGTCTGCAAT	TGGTTGCAAT	TGAACATAAT	TGTAGCCCAG	CTTCTTGATG	TAATCAAAAG	1860
CAGTTGACTG	GCCGTATTGG	TTAACTGTTC	CAGCCTGAGC	AGCACCCAAG	AAAGTTCCTC	1920
GAAGATGTTC	ATCTACACCC	GATGTAGGTG	ATTTAGTCAA	ATCACGAATG	TGCATTTCAC	1980
AGATAACTGC	CTTACATGGA	TTTTCCAAGC	GCCAAGTAGC	CTCCGAACCG	TGCTTAACCT	2040
CGAAGTTTTC	AACTTGCTTT	TCTACATGGC	TCAGAATAGC	TGAACGTTTG	CCATCAGGGC	2100
TGGTCGCGAT	TGTATAAGGA	TCACGTGTCA	GTGTTTGGTG	ATGAGGGAAT	TGGACTTGAT	2160
ACTGATAAGT	CTTACCTACC	AAATCTTCTT	CAACATCCAA	ACTCCAGACA	CCGATTGTAT	2220

			902			
TGTCCTTATG	ATTATAAGAG	TAGCTATTGC		CTCAAAAGTC	TTCCAAACGG	2280
GTGCATCATT	AGCAGCTGAT	TCATAAACGA	CAACTTGCAC	TTCTGTCGCT	GTAGGTGACC	2340
AGAGAGAAAA	ATGAGCCTGA	TTGTCCTCTA	CACGGCAACC	CAATTCTCCT	TGGTAACCCC	2400
AATGATGATC	AAAACTAGCA	CTGTTAATGG	CCTTATCAAA	GGCAAAAGGA	TTTTGATTTT	2460
TATAGAAAGG	ACTGGCAATA	GCAGGATTTT	CAGAGTAATA	AATCCTATCA	TCGCCTTCCA	2520
AAATCCAGAC	CTCTGTTAAT	AGGGGATAGT	GATTAAAACG	GATAGAATAT	TCTTTACTAG	2580
TTTGACCTGT	ATGAACCACA	AAATTCAAGC	TTTCTATAAC	ATGTGAACTT	GGGTGTTCAA	2640
AGCTAAATAA	AGCTCCAAAA	TAATCTTCTT	TGTAGGTTAG	CAAATCAATT	CGTTGATCCT	2700
GACTTTTTAC	AAAGGAGCAA	GTGTCATATT	CTCCATTCTT	ACGATGGTAA	TGAATGCGCA	2760
TAGGGTAGTT	ATACATTTTT	TATTTTTCCT	TTTTACTTTG	TTTCTATTTC	ACTAATAAAT	2820
TTTTGTCAAT	CTCGTCTCAA	TTAACAGACA	TAGTCATATT	CTCTAAACTC	TGTTTTTAAA	2880
CGATCCATTA	CAAACTTTCT	AGCCATGCCT	CATCTCTGAC	CTGGATACCA	AGTTCTTGTG	2940
CTTTTTGCAG	TTTACTTCCA	GCGTCTGCAC	CTACCACGAC	GAGGTCGGTC	TTTTTAGAAA	3000
TACTACCTGT	CACTTTGGCA	CCCAGACTTT	CGAGTTTACT	TTTAGCTTCT	GAGCGCTTGA	3060
GTCGTTCCAA	TTTTCCTGTC	AATACCACGG	TCAAACCTGA	CAAGGCCGCA	TCCGCTACTA	3120
CCGTCTGTCC	TTTATAGTCC	AGATTGACCC	CAGTTTCTTT	CAATTCTCTG	AGCAGAATTT	3180
CAGAGCCTTC	TGTCGCAAAA	TAAGTCTGAA	GACTTTTGGC	AATCACGCCA	CCTAGACTTT	3240
CAATACTAGC	CACTTCCTCT	GAATCTGCCT	GAGACAGATT	TTCAATTGAA	TGGAAATATT	3300
GAAGTAAAAG	CTGACTAACC	TTGCTTCCGA	CATGACGAAT	TCCCAAACCA	AATAAGAGCT	3360
TCTCGGCAGA	ATTTTCCTTT	GATGCTTGGA	TAGCCTGATA	CAGTTTAGCA	GCGGACTTTT	3420
CCTTAACTCC	CTCTAAAAGG	AGGAAATCCT	CTTCTTGCAA	ACGATAAATA	TCCGCCACAT	3480
CCTTGACTAA	ATTAGCAGCA	AAAAGCTTCT	CAACAATAGA	TGGACCAAGG	CCTGTAATAT	3540
TCATAGCATC	ACGAGAAGCA	AAGTGAATCA	AGCCTTCCAT	GATTTGAGCA	GGGCAACGCG	3600
GATTGATACA	ACGTAGGGCC	ACTTCATCTT	CAAAGTGCAA	CAAGTCAGAG	TTACAACTTG	3660
GACAGTTTGT	AGGGATATCT	AGTTTTTCTT	CAGAAACCCG	TTTGGACTCT	ACCACACGTA	3720
AAACGGCAGG	GATGATGTCA	CCAGCCTTAT	ATACAATGAC	CGTATCGTCT	TTTCGGATAT	3780
CTTTTTCAGC	AATATAATCT	ACATTGTGCA	GGGTCGCACG	GCTAACAGTC	GTACCGGCAA	3840
GTTGTACTGG	TGTTAGATTA	GCAGTTGGAG	TTACAACACC	GGTACGGCCA	ACTGTCCAGT	3900
CAACTGATAA	GAGTTGAGCT	TCTTTTTCTT	CGGCAGGGAA	CTTGTAGGCT	ACTGCCCACT	3960
TTGGAGCCTT	AACTGTAAAA	CCAAGTTCTT	CTTGACTTGC	TAGGTCGTTG	ACCTTGATTA	4020

CCACTCCATC	AATATCGTAA	GGCAGATTTT	CCCGTTCCTG	TCCTACTTCT	TGGATAAAAT	4080
TCCAGATTTC	ATCTATGTTT	TCAGCCAAGA	TTCGCTTAGG	ATTGACCACA	AAACCTAGTT	4140
GTTCTAGGTA	CTTCAAACCC	TTTTCTTGGC	TATCACGAGT	TGAAGGGCTG	GCTTCTTGAT	4200
AGAGAAACGT	TGCAAGATTA	CGCTTGGCAA	CTACTGCTGT	ATCCAACTGA	CGCAGAGTTC	4260
CTGCTGCCGC	ATTACGAGGA	TTAGCAAATT	CAGGCTCTCC	ATTTTCTTGG	CGCGCTTGGT	4320
TAACTTGGTC	AAAGGAAGCG	CGTGGCATGT	AACATTCCCC	ACGAACTGTG	ATATCTAGTT	4380
CTTCTGGCAA	AGTCAAAGGG	ATGTCCTTAA	CACGCTTGAG	GTTTTCTGTG	ATATTTTCAC	4440
CAATTGAACC	ATCTCCACGT	GTTACCCCAG	CAACCAAAAT	CCCCTTTTCA	TAAGTCAGCG	4500
AGATAGATAA	GCCATCGATT	TTCAGCTCAC	AAATATAGGT	CGGATGAGCC	ACTTCCTTAC	4560
GAACACGCGC	ATCAAAAGCA	TCTAGCTCCT	CACATGAAAA	AGCATCCTGC	AAACTATAAA	4620
GAGGATACTG	ATGACTGTAT	TTTTCAAAAC	CATCTAAAAC	CTTGCCACCA	ACACGATGAG	4680
TCGGACTGTC	TGCTAGCACT	TGCTCTGGAT	AAGCAGTTTC	TAACTCGACC	AACTCACGGT	4740
AAAGGCGGTC	ATACTCACTG	TCTGAAACCG	AGGGATTATC	GCTGGTATAG	TACTCAGTCG	4800
CATAGCGATT	GAGCAAAGCG	ACTAACTCAT	TCATTCTTTT	ATTCATAAGA	CCATTTTACC	4860
ATAAAACAAG	CCCTCCTCAC	AAACGAGAAG	GGCGGAAAAA	ACACTTAGTT	TGAAATTATT	4920
TTTGAAACTC	AAGCAACCTT	ATATCAATTT	TTCAAAATGA	GTTCGAACAT	ATCCGAGAGC	4980
TAAGAAATAT	AAGGCTACAA	CTCCAAGTCC	AATAATCAAG	AAAGAATAAA	GATGGACACT	5040
TGGCAAGACT	GTCATAAATC	CTTTTGCAAT	AGGCATAAAT	AGAATAGCTA	AGGTAAAAAT	5100
TGTACTCAGT	ACTCTTCCAA	GAAATTCGCT	CTCAACCTTG	GTTTGTACTT	GAGTAAAAA	5160
GTGAATATTA	AAAATCGTCA	TAAACAATTC	ACAAACTAAA	TTTCCAGAAA	AGGAAAGAAA	5220
AGTTGGAAGT	GGTAATCCCA	TCATAAAAAC	TCCGACACCT	GTCAAAGCCA	GTAAAATCAA	5280
AAGATTATAA	ATATTAGCTT	TAATTTTACT	AGCTAGAAGA	GCCCCAATGA	TGGAACCAAT	5340
AGCCCCCATA	GTTAAAATAC	TTGCATAGGC	TCCTTCTGAC	CCGTAAAGCT	GATTCGAAAA	5400
GGGAAGTAGA	AATTCAAAAG	CTGCAAAAAA	GAAATTAACG	CTGGAAGCTA	CCAGCAAAAG	5460
GAAGAAAATT	TCTTGCTGAT	GCCAGATATA	GTGTAACCCA	TCCTTGATAT	СТАСАААААТ	5520
ATCTCTCCCA	GTAAAAGCCT	TTTTCTCTTG	AACTTTTGCT	TCCTCTTTTG	GAAGGAAAGC	5580
CACTAGAACA	AAAGCAATGA	AAAAAGTCAG	CGAGTCTAGC	AGTAGCGTCA	TATGGAGACT	5640
TGCAAACTGT	AAAACAAGGA	AGGAAAGAAC	AGGAGAGCTA	ACACCTACAA	CCTGCAAAAC	5700
CAGCTCTAAG	CGAGAATTAT	AGATCACAAT	CTCATCTTTC	TCCACCACTT	CAGTTATGAT	5760

			904			
AGCTTTATTG	GCTGTGCGAG	AAAAGGCAAA	AGCAATAGCC	TGCACAATGT	TAGCAACAAT	5820
CAAAGCGCCA	ATCATCCAGC	TATCATTCCT	TATGAAAGAA	ATAGCCAGAC	AAAGAATCCC	5880
ACAAACAAGA	TCTGCCGTCA	TTAAAATCTT	ACGACGAGAA	AAACGGTCTG	AAATAACTCC	5940
GCCAAAGGGA	TTGACGAGAA	TAGATGTGAC	GAGCTCAGAA	ATCTGATACA	TTCCTAAAAC	6000
TGTCTGTCCT	ATAGTCCCCA	TAGAAGCCAA	CCAGACACTA	TTTCCATAAT	CATAGAGCAT	6060
ATTTCCCATT	TTATTGATAG	CCCCACGGCT	AATCAACTGC	ACTGCATAGC	GATTCATATT	6120
AAAGCTCCTC	TCAAATTTTG	AAACTATTGT	ATCAAAACCG	AAAGGAGCTT	TTTATTTTTT	6180
CCCTTATTTG	GGAAAATTAA	CTTTTGACAA	ATTTTTCGTA	GTGTTCCTGA	TAATAGGCTA	6240
CTTGCTCTGG	AAGACCTAAC	ACATCAAAAA	TATGCATGGC	CTCTTGCATC	TGCTTACAGC	6300
CTTCTTTACA	CTGTCCTTTT	TGATATAAGG	CAAAACCTTT	TAAATAATGG	AAAACATTAC	6360
GCTCATAAAG	CTTAATACCT	TTGTCAATAA	TCTTCTCTGT	ATAAGCCTCA	AAATAGTTGG	6420
CATTATAAAA	AGAAGAATGC	TCTAAACAAT	GCTGGTAACA	ATTGAGGGCC	AAAATCAACA	6480
CTAATCTCTT	ATGGCGACTA	ATCTCTTGGT	AAAATTCCTC	CCTCTCCATA	ACTTCTCTAC	6540
CAATCCGAGT	GACATAGTCT	ACATCGTAGA	AACTATAGAG	GTTACCGAAA	AGAATCAACT	6600
CATACATGGT	CCATTCTTCT	GTTTTGAAGA	GATAATCTGC	TACCTTACCC	AAATCATCCT	6660
GCTTCATATC	ATAACTCGCA	TCTCTTTGAC	AAATCAGACC	TTGTAGCAAA	ATCCAGTTCA	6720
GCTCAAAATA	AAGGGGAGTC	GTCGAACTCT	TAGACTTTTC	AAGTTGTTCT	CTTTGAAGCT	6780
TTTGAAAACC	TGCAATATCG	TTTGAATAGT	AAAGTGGGAT	AATCTGTGCC	ATCATAGACA	6840
CATGTTCATG	ATTATGAAAA	TTCCTTGCCT	TATCCATGAA	ATTTTCGATT	GTTACATGAA	6900
TGTTATCCAA	AATCTCAAAG	AAACGGGAGA	CTGCCAGGTC	AGACTCCCCA	AGCTCAAAGC	6960
GAGATAACTG	AGAGGTAGAG	CAGGATTCGC	CTGCTGCTTC	CTTTAAAGAA	TAATTTCCAC	7020
TTGTTCGAAA	TTCACGAAAT	ACTTTTCCAA	GATGTTCCAT	CTTTACACCT	GCTCTGATAA	7080
TTCTTCCCAC	TCAAGCATAG	CTTCTTCCTG	ACGATGGCTG	ATTTTGTCCA	GCTCAGCCTG	7140
TAATTCCATG	AGTTTGTCGG	CATCGTTTGT	TTCCAACATT	TGTTCAGAAA	TGGCTTGGCT	7200
TTGACTTTCT	AGCTCTTCAA	TTTCAGCTTC	TAGACTTTCG	ATTTGTCGCA	TGAGTTTGCG	7260
AACTTCTTTT	TGACTTTCTT	TCTGGGCCTG	ATAGTCATTG	ACTGGACTTG	CTTCCTTTGC	7320
TTGATTGCTA	GTTGAAGCTT	CCTCAGTCTG	ACTCATTTCT	GCTGTTGCTT	TCTTCTCAAC	7380
ATAGTAGTCG	TAATCTCCAA	GGTAGAGAGT	TGAACCATTC	TCAGACAATT	CCAAAACATG	7440
AGTTGCCACA	CGATTGATAA	AGTAACGATC	ATGACTGACA	AACAGCAAGG	TTCCATCAAA	7500
GTCAATCAAG	GCATTTTCTA	GCACTTCCTT	ACTATCAATA	TCCAAGTGGT	TGGTCGGCTC	7560

ATCCAGAATC	AAAAAGTTAT	TGTTTTCCAT	AGACAATTTA	GCTAAAAGCA	AACGAGCTTT	7620
TTCGCCACCA	GATAGCATGC	CGACTGATTT	TTTAACATCA	TCTCCTGAGA	AAAGGAAGGC	7680
TCCAAGACGG	TTGCGGATTT	CAACTTCTGG	TGTCAGTTTG	AAATCATTCC	AGAGTTCATC	7740
CAGCACCGTA	TTACTTGGTG	TCAGCTTGCT	TTGGGTTTGG	TCATAGTAAC	CAACCTCAAC	7800
ATTAGCGCCA	AAGCGCTTTT	CTCCCTTGAT	AAAAGGAATC	TGGTCCACAA	TAGACTTGAT	7860
AAAGGTTGAC	TTGCCGATAC	CATTTGGACC	AACGATAGCG	ACAGCATTCA	TCTTACGAAG	7920
ATCTAGGTTA	ATCGGTTGTG	ACAAGACTTC	CCCGTCATAG	CCAACAGCTG	CATTTTCAAC	7980
AGTCAAAACA	ACATTGCCCG	ACGTTTTTC	AGACTGGAAG	GTCATGTTGG	CTGATTTCTT	8040
GCCAGCTTCA	GGCTTGTCCA	AACGTTCCAT	TTTTTCCAGT	TGTTTACGGC	GAGATTGAGC	8100
ACGTTTAGTC	GTTGAAGCAC	GAACTAGATT	GCGATTGACA	AAGTCTTCCA	GAGCAGCGAT	8160
TTCCTTCTGT	TGCTTTTCAT	AGTTTTTTGC	CTCAGTAACT	AGCTTTTGCT	CCTTCAATTC	8220
GACAAAACGA	GAGTAATTCC	CCACATAGCG	ATCCAAGGAA	TGCTTGGTCA	AATCTAGCGT	8280
AATTGTCGCA	ACCTTGTCCA	AGAAATAACG	GTCGTGGCTG	ACGATAATGA	GGGCACCGCT	8340
ATAGTTTACC	AAGTAATTCT	CTAGCCAGGC	GATGGTTTCA	ATATCCAAGT	GGTTAGTTGG	8400
CTCGTCCAAG	ACCAAGAGAT	TGGGCTTTTC	AAGGAGCATT	TTGGCAAGTG	CCAAACGAGT	8460
ATTTTGACCA	CCAGAAAGCT	CAGCAATTTT	CATCTGCCAC	ATAGACTCGT	CAAACTTGAA	8520
TCCATTCAAA	ATCGCTCGAA	TATCAGCTTC	ATAGGTAAAG	CCACCTGCTT	GGCGAAAATT	8580
CTCAGATAAG	CGGTCATAAT	CTGACATCAG	TTTATCCAAA	TCCTCACCAG	ACTTTTCACC	8640
CATCTCCAGC	TCCATCTGAC	GCAGTTGTCT	CTCCGTCCGA	CGCAAATCAT	TAAAGACATG	8700
AAGCATTTCA	TCGTAGATGG	TATTTTCAGA	CTCAAAACGG	CTATCTTGGG	CTAGGTAAGA	8760
CAGAGAAATA	TCTTTTTTCT	TATTGATTTC	TCCGCTAGTT	GGCTCCTCTT	CTCCAACTAA	8820
AATCTTCAAA	AGAGTAGACT	TACCTGCACC	ATTTTTCCCA	ACAAGAGCAA	TCCGATCTCG	8880
TTCATCAACC	TGCAGGTTGA	TATTATCGAA	AAGAACCTCT	CCTGCAAAAG	AACGTTCAAT	8940
TTTATTAGCT	TGTAAAATAA	TCATACAAGT	AGTATAGCAT	GTTTCCCTAA	GGCATTCAAG	9000
ATAATCGTAA	GTCTTTTAGT	ACAACTTTTA	TAACATAAAA	TAAACTAAAT	TATGTATATT	9060
TTATATTAGA	TTACTTCACT	ATCTTGTTGG	ATTTTCTAAC	CAGCTAATCT	TGTTTCAAAT	9120
AGTTATCGCA	CAAGTCTATT	ATTTAATTCT	TTTCATCATT	TACGTACGTA	TAGCAGATTG	9180
AAATAAGATG	AGAACAAATC	GATTGGGAAA	GTAAAATTAA	TTTCTATAAA	TGTTTTAGCA	9240
ATTGTTTCGT	ACTATTTTAG	ATTCAGTCTA	СТАТАТАСАА	TATTTTCGGA	ACATTCAACT	9300

			906			
TTTTAACTCT	ATTTATTACT	AGATTTCATA	ATTAAAAAAC	CTACTGACCA	AGCTAGAAAG	9360
CTTGATACAA	TAGGCTTTTT	AAAGACTGAT	TATTTAACAG	CGTCTTTAAG	AGCTTTACCA	9420
GCTTTGAATG	CTGGTACTTT	AGAAGCTGCA	ATTGTCATTT	CTTTACCAGT	TTGTGGGTTG	9480
CGACCTTTAC	GTTCTGCGCG	CTCACGAACT	TCAAAGTTAC	CAAAACCGAT	CAATTGAACT	9540
T						9541

### (2) INFORMATION FOR SEQ ID NO: 133:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3502 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

TTGACTATCC TATCATGCTT TCTA	AGGTCT ACTCAAGAAA	ATCATTTTCA	AGTTTTCACA	60
CCTTTCTCAA AAAAGTTAAA AAAT	TTTCTC AAAAACGCTT	GACTCTGACC	TAAGGCGAAG	120
GGTTATACTA TCATTGTAAG GAGG	AAATCA TGTACCATAT	AAAAGAAGCT	GCGCAGCTTT	180
CAGGTGTCTC TGTCAAGACC CTGC	ATCACT ATGACAAGAT	AGGACTCTTG	GTCCCCTTAA	240
AGTCGGAAAA CGGCTATCGA ACCT	ACAGTC AAGAGGATTT	GGAACGCCTT	CAGGTCATTC	300
TTTACTACAA ATATCTAGGC TTTT	CTTTAG AGAAAATAGC	AGAGCTGTTA	AAGGAAGAAA	360
GGACAGATTT ATTGCCCCAT TTGA	CTAGGC AGTTGGACTA	TCTAACTCGC	GAAAGGCAAC	420
ATCTGGATAC CTTGATTTCC ACCT	TGCAAA AAACTATTCA	AGAACAAAAA	GGAGAAAGAA	480
AAATGACCAT TGAGGAAAAA TTCA	CGGGAT TTAGCTATCA	AGACAATCAA	AAATACCACC	540
AAGAAGCGGT AGAGAAATAT GGTC	AAGAAG TCATGGGACA	AGCGCTCGAA	CGCCAAAAAG	600
GTCACGAAGA CGAGGCTACG GCCG	CCTTTA ACCAAGTCTT	TCAAACTTTG	GCACAAAATC	660
TTCAAGTTGG TTTACCTGCA ACAG	CAACCG AAAACCAGGA	GCAAGCAGCC	AAGCTCTTGC	720
AAGCCATTCG CACTTATGGA TTTG	ACTGCT CTATTGAGGT	ATTCGGTCAT	ATCGGTAAAG	780
GTTACGTCTA CAACCCAGAG TTTA	AGGAAA ACATTGACAA	GTTTGGTTCT	GAAACAGCCC	840
AGTACACGTC AGATGCCATT GCGG	TTTACG TTCAGACAAA	TGCAGAATAA	ATAGGCTAGG	900
AATTTCCTAG CCTATTTTTT ACTT	CAAATC ATAAAGCCAG	TCGTCACCGT	TTTTGTAGTA	960
AAAGAATTCA CTGAGATCTT CTTC	TAGAAA CACACGAAGC	ATATCAGACA	TATCATCGGT	1020
TGCAAGTTTT AGATGAGAAA GATT	TTCAAA GTCCTCCCAC	CAAACTTTCC	CTTCGTCTGA	1080
AGACTGGAGT TCACCAGTAA AGTG	TTCTGT CTTGTAAAAA	AGGACGACAT	AACGATAATC	1140

CMMCMCCMC3	<b>M3 003 000000</b>	maxmx aax ax	G1 GDDGGGGG			
CTTGTCGTCA	TACCAGTTTT	TGATACCACA	GAGTTGGGGT	TTGGAAATGA	TCAGACCAGT	1200
TTCTTCTTTC	ACTTCACGAA	TGACAGCATC	GACAAAGGAT	TCGCCACGTT	CAACATGACC	1260
ACCAGGAAAA	GTAATGCCAG	ACCAGTCGGG	ATTAACTCGG	TCTTGGACCA	GGACCTTATC	1320
TCCGTTTTTA	ATCATACACA	TGTTAACAAA	TTCGACTGCC	TCTCTTCTGT	TCATTCTTCA	1380
CAACCTTTAA	TCTTTAATCA	TAATGCAGAC	TTCCCGCCAC	CCAGCCGGTA	CAGAGGCAG	1440
AAGTGATGTT	AAAGCCACCC	GTGTGGGCAT	TGATATCCAT	AACTTCGCCT	GCAAAGTGGA	1500
GGCCAGGTAC	CAGCTTACTT	TCAAGGGTTT	TAGGATTGAT	TTCCTTGAGA	CTGACTCCAC	1560
CCTTGGTAAC	AAAGGACTTT	GCAAGGGACA	TTTTTCCAGT	TACAGGAATT	TTAAGTTCTT	1620
TAATGGACTG	GACAAGTTGT	TCTCGTTCCT	TTTCAGTCAG	TTGTTTGACT	TTTTCAGGAT	1680
ATCCTTGTAC	AAAAAATTCG	GCCAAGCGTT	CTGGTAACAA	GGTTTTTAAA	GCGTTTTTCA	1740
AGGATTTTC	CCGATTTTCT	TCTAGAAATG	TAACCAAGTC	CTTCTCAGAA	AGTTGAGGCA	1800
AAACATCGAG	TGAGAGAACC	TCCCCACCTT	TGACAAAGCT	AGACATGCGT	AGGGCAGCAG	1860
GACCTGACAA	ACCAAAGTGG	GTAAAGAGTA	AATCATGAGT	GATGACATGC	TTACCATAAC	1920
TTAGGGTCAC	ATCGTCCAGA	GAAATACCTT	GTAAGGCTTT	ATGTGGAAAA	TCTGTTAATA	1980
AAGGACTTTC	AGCAGCCTCA	AGATCGGTGA	TGGTATGCTT	AAAATGGCGA	GCAATCTCGT	2040
GACCAAAACC	AGTCGAACCA	GTCGAAGGAT	AAGACTTACC	ACCTGTTGTG	ACAATGAGTT	2100
TCTCACAAGT	GAAGGTTTGA	TCCGCTGACT	TAAGGACAAA	CTGGTCATCT	ACTTTTTTAA	2160
CAGAAACGAT	TTCTATTTGA	GTAGCAACTT	GACCACCTAG	TTCGGTGATT	TTCTTTTCCA	2220
AAGCTTCGAT	AATAGTCCGA	GACTTGTCAC	TGGCTGGAAA	GACGCGTCCG	TGGTCTTCGA	2280
CCTTAAGTTT	AACACCATTT	TCTGTAAAAA	AGTTGATGAT	GTCATGATTA	TCGAACTGGG	2340
AGAAAACACT	GTAAAGAAAG	CGTCCGTTTC	CAGGAATTCC	AGCTAGCAGG	TTGTCTAAGC	2400
TACCATTGTT	GGTCACATTG	CAACGTCCCC	CACCAGTCCC	AGCTAATTTT	TTTCCAAGTT	2460
TCCGATTTTT	TTCGATGAGG	AGGGTTTTCT	GTCCATAAAA	GCTACTGGAA	ATCGTAGCCA	2520
TCATACCAGC	AGGTCCCCCA	CCGATGACAA	TAGTATCAAA	ATGTTTCATA	GCTCTATTGT	2580
ACCACAAAAA	AACAAGAGAT	GATGGTCACC	TCTTGTCAAG	AATGCAATTA	ATCAATTTCA	2640
TAGCCCATCA	GCAAACCGCC	CTCTTCTGCA	TAGAAACTGC	AGAGACCAGA	GGTTGGTAGA	2700
АТТТТААТАТ	CCGCTTGTGG	GAAGGTTTCA	CGGATTCGCT	CTGAGAGCTG	TTGACAACAT	2760
TTTTCGTTAT	TGCGTTGGGC	CATGACAATA	CGGCCACCAG	CATATCCAGC	TTTTACTAAC	2820
TCATCATAGG	CAGCTTGAAC	TGATTTCTTT	GATCCCCTTG	CTTTTTGTAG	CAATTCGAGA	2880

			908			
GTCCCAGTTT	CACTAGCTTT	TCCGACCATA	CGAATGTTGA	GAAGGCCAAC	GACCGTACCG	2940
ATAAGCTTGC	TCAAACGGCC	GTTCTTCACC	AAGTTATCGA	CTTTGGCTAG	GACAAAGAGC	3000
AACTTAGTTT	TTTCTTGATA	GGCGGTGATA	GCTTCAACCA	CTTCTTCAAA	AGACAAGCCC	3060
TGGTCAATCA	AGTCATTCAA	TTTTTCTACG	AGTAGGTCAA	CTTCACCACC	AGCAGATAAA	3120
CTATCAATCA	CATGAATCTT	AGTGTCAGGA	TGGTCTTCCA	GATAAATATT	CTTTGCTAGT	3180
TGAGCACTAT	TGTGACTGCC	AGAAAGGGTA	CCTGTGATGG	TTACTAGGAA	AATGTTTTTG	3240
GCACCTTCAA	ATGCTCGCAA	ATAGTCATCT	GGGCTTGGAC	AAGCCGATTT	TGAAGCTTCT	3300
GCAGTTGCAT	ACATGGTTTC	CATCATTTGG	TCAATATCGA	GACTGGCGTC	ATCAACAAAG	3360
ACCTGATCAG	CTACTTGAAT	GGTTAAGGGG	ACACTTACAA	AGGTTGTGTT	AATAGCTGGT	3420
GTTGGCAGTT	GACGATAATC	ACAACCAGAG	TCAGCAATAA	TCTTCCAAGT	CATAGAAATT	3480
CTCCATCTTT	GTCAGGAACG	AT				3502

# (2) INFORMATION FOR SEQ ID NO: 134:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12665 base pairs (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CGATTGATTT	TTTTAAAGCG	TTCGATAGAG	AATGAGAAAC	GAATCCTTAG	CAATGGCGGG	60
AAAGAATTTG	GAGTTGAGAA	TACAAAACGA	TTAACTATGG	CTCATATTGT	TTTTTATCTC	120
TCTTGCTTGG	TTGAGGCAAT	GGTGCACAAG	ACAATTTTTG	ATGGCATGGG	CATGGTTGGT	180
TTAGTCTTGC	TTATTTTTTC	TATGCTGATG	TTGATGTTGG	TGATTCACTT	GTTGGGAGAT	240
ATTTGGACAG	TGAAGCTTAT	GCTTGTCAAT	AATCACAAAT	ATGTAGATCA	TATCTTGTTT	300
AGGACAGTAA	AACACCCTAA	TTACTTTTTA	AATATTCTTC	CTGAGTTGAT	TGGCTTGACC	360
TTGTTGAGTC	ATGCTTATGT	GACTTTTGTT	TTAGTTTTTC	CAGTTTATGC	AGTTATTTTG	420
TATCGACGAA	TAGCTGAAGA	GGAAAAGCTA	TTACATGAAG	TTATAATCCC	AAATGGAAGC	480
ATAAAGAGAT	AAATACAAAA	TTCGATTTAT	ATACAGTTCA	TATTGAAGTG	ATATAGTAAG	540
GTTAAAGAAA	AAATATAGAA	GGAAATAAAC	ATGTTTGCAT	CAAAAAGCGA	AAGAAAAGTA	600
CATTATTCAA	TTCGTAAATT	TAGTGTTGGA	GTAGCTAGTG	TAGTTGTTGC	CAGTCTTGTT	660
ATGGGAAGTG	TGGTTCATGC	GACAGAGAAC	GAGGGAGCTA	CCCAAGTACC	CACTTCTTCT	720
AATAGGGCAA	ATGAAAGTCA	GGCAGAACAA	GGAGAACAAC	СТААААААСТ	CGATTCAGAA	780

CGAGATAAGG	CAAGGAAAGA	GGTCGAGGAA	TATGTAAAAA	AAATAGTGGG	TGAGAGCTAT	840
GCAAAATCAA	CTAAAAAGCG	ACATACAATT	ACTGTAGCTC	TAGTTAACGA	GTTGAACAAC	900
ATTAAGAACG	AGTATTTGAA	TAAAATAGTT	GAATCAACCT	CAGAAAGCCA	ACTACAGATA	960
CTGATGATGG	AGAGTCGATC	AAAAGTAGAT	GAAGCTGTGT	CTAAGTTTGA	AAAGGACTCA	1020
TCTTCTTCGT	CAAGTTCAGA	CTCTTCCACT	AAACCGGAAG	CTTCAGATAC	AGCGAAGCCA	1080
AACAAGCCGA	CAGAACCAGG	AGAAAAGGTA	GCAGAAGCTA	AGAAGAAGGT	TGAAGAAGCT	1140
GAGAAAAAAG	CCAAGGATCA	AAAAGAAGAA	GATCGTCGTA	ACTACCCAAC	CATTACTTAC	1200
AAAACGCTTG	AACTTGAAAT	TGCTGAGTCC	GATGTGGAAG	TTAAAAAAGC	GGAGCTTGAA	1260
CTAGTAAAAG	TGAAAGCTAA	CGAACCTCGA	GACGAGCAAA	AAATTAAGCA	AGCAGAAGCG	1320
GAAGTTGAGA	GTAAACAAGC	TGAGGCTACA	AGGTTAAAAA	AAATCAAGAC	AGATCGTGAA	1380
GAAGCAGAAG	AAGAAGCTAA	ACGAAGAGCA	GATGCTAAAG	AGCAAGGTAA	ACCAAAGGGG	1440
CGGGCAAAAC	GAGGAGTTCC	TGGAGAGCTA	GCAACACCTG	ATAAAAAAGA	AAATGATGCG	1500
AAGTCTTCAG	ATTCTAGCGT	AGGTGAAGAA	ACTCTTCCAA	GCCCATCCCT	GAAACCAGAA	1560
AAAAAGGTAG	CAGAAGCTGA	GAAGAAGGTT	GAAGAAGCTA	AGAAAAAAGC	CGAGGATCAA	1620
AAAGAAGAAG	ATCGCCGTAA	CTACCCAACC	AATACTTACA	AAACGCTTGA	ACTTGAAATT	1680
GCTGAGTCCG	ATGTGGAAGT	TAAAAAAGCG	GAGCTTGAAC	TAGTAAAAGA	GGAAGCTAAG	1740
GAACCTCGAA	ACGAGGAAAA	AGTTAAGCAA	GCAAAAGCGG	AAGTTGAGAG	TAAAAAAGCT	1800
GAGGCTACAA	GGTTAGAAAA	AATCAAGACA	GATCGTAAAA	AAGCAGAAGA	AGAAGCTAAA	1860
CGAAAAGCAG	CAGAAGAAGA	TAAAGTTAAA	GAAAAACCAG	CTGAACAACC	ACAACCAGCG	1920
CCGGCTCCAA	AAGCAGAAAA	ACCAGCTCCA	GCTCCAAAAC	CAGAGAATCC	AGCTGAACAA	1980
CCAAAAGCAG	AAAAACCAGC	TGATCAACAA	GCTGAAGAAG	ACTATGCTCG	TAGATCAGAA	2040
GAAGAATATA	ATCGCTTGAC	TCAACAGCAA	CCGCCAAAAA	CTGAAAAACC	AGCACAACCA	2100
TCTACTCCAA	AAACAGGCTG	GAAACAAGAA	AACGGTATGT	GGTACTTCTA	CAATACTGAT	2160
GGTTCAATGG	CGACAGGATG	GCTCCAAAAC	AATGGCTCAT	GGTACTACCT	CAACAGCAAT	2220
GGCGCTATGG	CGACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTATCT	AAACGCTAAT	2280
GGTTCAATGG	CAACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTACCT	AAACGCTAAT	2340
GGTTCAATGG	CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2400
GGTTCAATGG	CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2460
GGTGATATGG	CGACAGGTTG	GGTGAAAGAT	GGAGATACCT	GGTACTATCT	TGAAGCATCA	2520

910 GGTGCTATGA AAGCAAGCCA ATGGTTCAAA GTATCAGATA AATGGTACTA TGTCAATGGC 2580 TCAGGTGCCC TTGCAGTCAA CACAACTGTA GATGGCTATG GAGTCAATGC CAATGGTGAA 2640 TGGGTAAACT AAACCTAATA TAACTAGTTA ATACTGACTT CCTGTAAGAA CTCTTTAAAG 2700 TATTCCCTAC AAATACCATA TCCTTTCAGT AGATAATATA CCCTTGTAGG AAGTTTAGAT 2760 TAAAAAATAA CTCTGTAATC TCTAGCCGGA TTTATAGCGC TAGAGACTAC GGAGTTTTTT 2820 TGATGAGGAA AGAATGGCGG CATTCAAGAG GCTCTTTAAG AGAGTTACGG GTTTTAAACT 2880 ATTAAGCCTT CTCCAATTGC AAGAGGGTTT CAATCTCTGC CAGGGTGCTG GCTTGCGAAA 2940 TGGCTCCACG GAGTTTGGCA GCGCCAGATG TTCCACGGAG ATAGTGAGGA GCGAGACCGC 3000 GGAATTCACG AACTGCGACG TTTTCTCCTT TGAGGTTAAT CAATCGTTTC AAGTGTTCGT 3060 AGGCGATCTT CATCTTGTCT TCAAAGGTCA AATCAGGTAG GATTTCTCCT GTTTCAAAGT 3120 AATGGTTGAT TTGGTTGAAG AGGTAAGGAT TTCCCATGGC AGCTCGGCCA ATCATGACTG 3180 CGTCAGCACC AACTTCTTCG ATGCGTTGCT TGGCTTCTTG GACAGTACGG ATATCACCGT 3240 TGGCGATGAA TGGAATCTTG GTTAGAGCTT GGGCAACCTT GTAAAGGGTC TCAAGGTCTG 3300 CGTGGCCAGT ATACATTTGT TCACGGGTAC GGCCATGCAT GGCGAGGGCA GAAACACCTG 3360 CAGCTTCAGC AGCGAGAGCA TTTTCTACTG CAAGAGATGG GTCCGCCCAG CCGGTACGCA 3420 TTTTGACAGT AAGTGGGATA TCAAGGACAG ACTGGACCTT GTTGATGATG GAGTAAATCT 3480 TGTCTGGATC CTTGAGCCAC ATAGCACCAG CTTCGTTCTT CACGATTTTG TTGACAGGGC 3540 AGCCCATGTT GATATCGACG ATATCGGTCT TGGTGTTTTC TTGGATGAAT TCTGCTGCGC 3600 GTGCTAGGCT GTCTTCATCG CTACCAAAAA GTTGGATAGA GACAGGGTTT TCGCCCTCAT 3660 CGATATGAAG CATGTGCAGG GTTTTTTCGT TGTTGTATTG GATTCCCTTG TCAGAGACCA 3720 TTTCCATTAC AACGAGTCCA GCTCCGAGCT CCTTTGCGAT AGTACGAAAG GCTGAGTTGG 3780 TCACGCCAGC CATAGGCGCT AAAACGGTAC GATTGGGAAT CTCAATATTG CCAATCATAA 3840 AAGGTGTATT AAGATTTGTC ACGAATGAGT TCCTCCAGGT CCTTTTCATC AAAGTTGTAA 3900 GTAGTTTGGC AGAATTGACA AGTGATTTCT GCCCCGTGGT CTTCCTCTTT CATTTCCTGT 3960 AAGTCTGAGC TTGGAAGGCT GGCAAGAGCG TTCATAAAGC GTTCATGGCT ACAGTCACAT 4020 TGGAAACGGA TTTCTTCTTC AGAAAGACGC TTGTAGGCTT CGTCCCCGTA GATAGCCTTG 4080 AGGAGGCTT CGATATGGTC GTCGCTTTCG AGAAGAGTAG AGATAGCTGG CATTTCTTGG 4140 ATGCGTTTTT CAAAGCGAGC AATCTCTTCT TTCTTGGCTC CTGGCAAGAC TTGAACTAGG 4200 AAACCACCTG CAACCTTGAC CTTGTCTTCC TCGTCCAAAA GGACATTGAG GCCGACCGCT 4260 GAAGGCGTTT GTTGGCTTTC AGTAAGGTAA AAGGCAAGGT CTTCACCGAT TTCTCCAGAG 4320

ATGAGGGGAG	TTATAGAGTT	GTAAGGATTT	CCAGTACCGT	AGTCTGTGAT	AACGAGGAAT	4380
TGACCATTTC	CAACAAAAGG	TCCGACTAGG	ACTTCACCAG	TCGCAGTCTT	TTTGATGTCA	4440
ACACCAGGAT	TTTGAACATA	GCCTTTGACG	TTCCCCTTGG	TATCAGCGAC	GGTGATAATA	4500
GCACCTAGAG	AGCTAGATCC	CAACACCTTA	ACTGTAAGTT	TGGTATTTCC	TTTTTCATTG	<b>45</b> 60
GCTGCGAGAA	TCTGGCTAGC	GATAAGAGTT	CGACCAAGCG	CTACAGTTGA	GCTAGCTTGG	4620
GTTTGATGTT	TTTCTTGAGC	AGTGCGGACG	GTTTCAGTGC	TATCAAGGAC	AAAAGCACGA	4680
AAGGcTCCGC	TTTCTGATAT	AGTTTTAATA	ATTTTATCCA	TAGCTACTAT	TTTAGCATAA	4740
AAATGCCCAA	AGGGGGAGCC	GTGTGTTTAC	TGATTTTCAG	GATAATGGAC	CAGGAAATCA	4800
GCATGAAAAT	AAAAAGAGAA	ACAGATTATT	TTAGCATTTG	TCAGATTTAT	GCTATGCTTA	4860
AGGTAGAAAA	TGAAAGGGAT	AACAAATGTA	TTTAGGAGAT	TTGATGGAGA	AAGCCGAGTG	4920
TGGTCAATTT	TCAATACTTT	CCTTTCTATT	ACAAGAGTCT	CAGACGACCG	TCAAGGCTGT	4980
AATGGAAGAA	ACAGGATTTT	CAAAAGCAAC	CCTAACCAAA	TATGTCACCC	TGCTCAATGA	5040
CAAGGCTTTG	GATAGTGGCT	TAGAGCTGGC	TATTCACTCA	GAAGATGAAA	ATCTGCGTCT	5100
GTCTATCGGT	GCAGCTACCA	AGGGGAGAGA	TATTCGGAGC	TTGTTTTTGG	AGAGTGCTGT	5160
TAAATACCAG	ATTTTGGTTT	ATCTTCTCTA	CCACCAACAG	TTTTTAGCCC	ATCAGCTGGC	5220
TCAAGAATTG	GTGATTAGCG	AGGCTACGCT	TGGTCGTCAC	TTGGCTGGTT	TAAATCAGAT	5280
TTTGTCAGAA	TTTGATTTAT	CCATCCAAAA	TGGCCGTTGG	CGAGGTCCAG	AGCATCAGAT	5340
TCACTATTTC	TATTTCTGTC	TTTTCCGAAA	GGTCTGGTCG	AGTCAGGAAT	GGGAAGGTCA	5400
CATGCAGAAA	CCAGAGAGAA	AACAGGAGAT	TGCCAATTTA	GAGGAAATCT	GCGGTGCAAG	5460
TTTGTCTGCG	GGGCAGAAAT	TGGACTTGGT	TCTCTGGGCT	CACATCAGTC	AACAACGTCT	5520
TCGGGTCAAT	GCTTGTCAGT	TTCAAGTCAT	AGAAGAGAAA	ATGCGAGGGT	ATTTTGACAA	5580
TATCTTTTAT	CTTCGTTTGC	TGAGAAAGGT	TCCGTCCTTT	TTTGCTGGGC	AACATATTCC	5640
ACTAGGAGTT	GAGGATGGTG	AGATGATGAT	ATTCTTCTCT	TTTCTCCTAT	CTCATCGCAT	5700
TCTTCCTCTT	CATACTATGG	AGTATATTCT	TGGTTTTGGA	GGGCAGTTGG	CAGATTTACT	5760
GACGCAATTG	ATTCAAGAAA	TGAAGAAGGA	GGAACTATTG	GGGGATTATA	CAGAGGACCA	5820
TGTCACCTAT	GAACTCAGTC	AGCTTTGTGC	TCAAGTCTAT	CTCTATAAGG	GCTATATTTT	5880
ACAGGATCGC	TACAAGTACC	AGTTAGAGAA	TCGTCATCCA	TATTTACTGA	TGGAACATGA	5940
TTTTAAAGAG	ACAGCAGAGG	AGATTTTTCA	TGCTCTACCT	GCTTTTCAAC	AGGGGACAGA	6000
TTTAGATAAG	AAGATTCTCT	GGGAATGGCT	CCAGTTAATC	GAATATATGG	CTGAAAACGG	6060

			912			
TGGCCAGCAT	ATGCGGATTG	GTCTGGATTT	GACATCTGGT	TTTCTTGTCT	TTTCAAGGAT	6120
GGCAGCCATT	TTGAAACGGT	ATTTGGAATA	CAATCGTTTT	ATTACCATTG	AAGCTTATGA	6180
CCCTAGTCGG	CATTATGATT	TGCTGGTTAC	CAATAACCCG	ATTCATAAGA	AGGAACAGAC	6240
ACCAGTCTAT	TATTTAAAAA	ATGACTTGGA	TATGGAGGAT	TTGGTAGCGA	TTCGCCAGTT	6300
ATTATTCACT	TAAAAGGCTT	GGTTAATCCA	GGTCTTTTTT	GTGAAATTCA	CACAATCTCC	6360
FCACATTTTT	ТТАААААТТА	AAAAAAGTTG	ATAAACAAGA	AAGCGCTTTA	TTTTGTATAC	6420
PAGTAAGTGT	AAAGAGGAAA	CACCTCAAGA	TCTTTATCAG	GAGGACAGTA	CATGTCACAA	6480
GAAAAATACA	TCATGGCCAT	TGACCAGGGA	ACTACAAGTT	CTCGTGCCAT	CATTTTCAAC	6540
AAAAAAGGGG	AAAAGGTTAG	CTCGAGTCAA	AAAGAGTTTA	CCCAGATTTT	CCCTCAGGCA	6600
GGTTGGGTTG	AGCACAATGC	CAATGAAATT	TGGAACTCTG	TTCAGTCAGT	TATTGCGGGT	6660
GCTTTCATCG	AAAGTGGTGT	CAAGCCAAAT	CAAATCGAGG	CAATCGGGAT	TACCAACCAA	6720
CGTGAAACAA	CGGTTGTCTG	GGATAAGAAA	ACAGGACTTC	CTATCTACAA	TGCTATCGTT	6780
rggcagtcac	GCCAGACAGC	ACCTTTGGCT	GAGCAACTAA	AAAGCCAAGG	TTATGTGGAA	6840
AAATTCCATG	AAAAGACTGG	TTTGATTATT	GATGCTTACT	TCTCTGCTAC	CAAGGTTCGT	6900
rggattttgg	ATCATGTAGA	AGGTGCTCAA	GAGCGAGCAG	AAAAAGGGGA	ATTGCTCTTT	6960
GGTACTATCG	ATACTTGGTT	GGTTTGGAAA	TTGACTGACG	GTGCGGCTCA	CGTGACTGAC	7020
FACTCAAATG	CAGCTCGTAC	CATGCTTTAT	AACATTAAAG	AACTCAAATG	GGATGATGAG	7080
ATTTTGGAAA	TCCTTAACAT	TCCGAAGgCT	ATACTTCCAG	AAGTTCGTTC	TAACTCCGAA	7140
ATCTACGGCA	AGACAGCTCC	ATTCCATTTC	TACGGTGGAG	AGGTGCCAAT	CTCAGGTATG	7200
GCTGGGGACC	AACAAGCAGC	CCTCTTTGGA	CAGTTGGCTT	TTGAGCCAGG	TATGGTTAAG	7260
AATACTTATG	GAACAGGCTC	TTTCATCATC	ATGAATACTG	GGGAAGAGAT	GCAGTTGTCT	7320
GAAAACAACC	TCTTGACAAC	CATTGGTTAC	GGAATCAACG	GTAAGGTTTA	TTATGCCTTG	7380
GAAGGTTCTA	TCTTCATCGC	AGGAAGTGCT	ATTCAGTGGC	TTCGTGACGG	TCTTCGCATG	7440
GTTGAAAATT	CACCAGAATC	TGAAAAATAC	GCTCGTGATT	CTCACAACAA	CGATGAAGTT	7500
PATGTCGTTC	CAGCCTTTAC	AGGTCTAGGC	GCTCCATACT	GGAACCAAAA	TGCTCGTGGT	7560
CCGTCTTTG	GTTTGACTCG	TGGAACAAGC	AAAGAAGACT	TTATCAAGGC	GACTTTGCAA	7620
CTATTGCTT	ATCAAGTGCG	TGATATCATC	GACACCATGC	AAGTGGATAC	TCAGACCGCC	7680
ATTCAAGTAC	TGAAGGTGGA	TGGTGGTGCA	GCCATGAACA	ACTTCCTCAT	GCAGTTCCAG	7740
GCGGATATTT	TAGGCATTGA	CATTGCACGT	GCTAAAAACC	TGGAAACAAC	AGCTCTAGGA	7800
GCGGCCTTCC	TAGCAGGTTT	GTCAGTAGGG	TACTGGAAAG	ACTTGGACGA	GTTGAAACTC	7860

TTGAACGAGA	CAGGAGAACT	CTTTGAGCCA	TCTATGAACG	AATCTCGCAA	GGAACAACTC	7920
TACAAGGGCT	GGAAGAAGGC	TGTGAAAGCA	ACTCAAGTCT	TTGCGGAAGT	AGACGACTAA	7980
TACTGGCAGA	ATAAAGCGAT	TTATTTAGAA	AGTGTGTAAA	TATGGAATTT	TCAAAGAAAA	8040
CACGTGAATT	GTCAATTAAA	AAAATGCAGG	AACGTACCCT	GGACCTCTTG	ATTATCGGTG	8100
GAGGAATCAC	AGGAGCTGGT	GTAGCCTTGC	AGGCGGCAGC	TAGCGGTCTT	GAGACTGGTT	8160
TGATTGAAAT	GCAAGACTTT	GCAGAAGGAA	CATCTAGTCG	TTCAACAAAA	TTGGTTCACG	8220
GAGGACTTCG	TTACCTCAAA	CAATTTGACG	TAGAAGTGGT	CTCAGATACG	GTTTCTGAAC	8280
GTGCAGTGGT	TCAACAAATC	GCTCCACACA	TTCCAAAATC	AGATCCAATG	CTCTTACCAG	8340
TTTACGATGA	AGATGGAGCA	ACCTTTAGCC	TCTTCCGTCT	TAAAGTAGCC	ATGGACTTGT	8400
ACGACCTCTT	GGCAGGTGTT	AGCAACACAC	CAGCTGCGAA	CAAGGTTTTG	AGCAAGGATC	8460
AAGTCTTGGA	ACGCCAGCCA	AACTTGAAGA	AGGAAGGCTT	GGTAGGAGGT	GGAGTGTATC	8520
TTGACTTCCG	TAACAACGAT	GCGCGTCTCG	TGATTGAAAA	CATCAAACGT	GCCAACCAAG	8580
ACGGTGCCCT	CATTGCCAAC	CACGTGAAGG	CAGAAGGCTT	CCTCTTTGAC	GAAAGTGGCA	8640
AGATTACAGG	TGTTGTAGCT	CGTGATCTCT	TGACAGACCA	AGTGTTTGAA	ATCAAGGCCC	8700
GTCTGGTTAT	TAATACAACA	GGTCCTTGGA	GTGATAAAGT	ACGTAATTTG	TCTAATAAGG	8760
GAACGCAATT	CTCACAAATG	CGCCCAACTA	AGGGAGTTCA	CTTGGTAGTA	GATTCAAGCA	8820
AAATCAAGGT	TTCACAGCCA	GTTTACTTCG	ACACAGGTTT	GGGTGACGGT	CGTATGGTCT	8880
TTGTTCTCCC	ACGTGAAAAC	AAGACTTACT	TTGGTACAAC	TGATACAGAC	TACACAGGTG	8940
ATTTGGAGCA	TCCAAAAGTA	ACTCAAGAAG	ATGTAGATTA	TCTACTTGGC	ATTGTCAACA	9000
ACCGCTTCCC	AGAATCCAAC	ATCACCATTG	ATGATATCGA	AAGCAGCTGG	GCAGGTCTTC	9060
GTCCATTGAT	TGCAGGGAAC	AGTGCCTCTG	ACTATAATGG	TGGAAATAAC	GGTACCATCA	9120
GTGATGAAAG	CTTTGACAAC	TTGATTGCGA	CTGTTGAATC	TTATCTCTCC	AAAGAAAAA	9180
CACGTGAAGA	TGTTGAGTCT	GCTGTCAGCA	AGCTTGAAAG	TAGCACATCT	GAGAAACATT	9240
TGGATCCATC	TGCAGTTTCT	CGTGGGTCTA	GCTTGGACCG	TGATGACAAT	GGTCTCTTGA	9300
CTCTTGCTGG	TGGTAAAATC	ACAGACTACC	GTAAGATGGC	TGAAGGAGCT	ATGGAGCGCG	9360
IGGTTGACAT	CCTCAAAGCA	GAATTTGACC	GTAGCTTTAA	ATTGATCAAT	TCTAAAACTT	9420
ACCCTGTTTC	AGGTGGAGAA	TTGAACCCAG	CAAATGTGGA	TTCAGAAATC	GAAGCCTTTG	9480
CGCAACTTGG	AGTATCACGT	GGTTTGGATA	GCAAGGAAGC	TCACTATCTG	GCAAATCTTT	9540
ACGGTTCAAA	TGCACCGAAA	GTCTTTGCAC	TTGCTCACAG	CTTGGAACAA	GCGCCAGGAC	9600

914 TCAGCTTGGC AGATACTTTG TCCCTTCACT ATGCAATGCG CAATGAGTTG ACTCTTAGCC 9660 CAGTTGACTT CCTTCTTCGT CGTACCAATC ACATGCTCTT TATGCGTGAT AGCTTGGATA 9720 GTATCGTTGA GCCAATTTTG GATGAAATGG GACGATTCTA TGACTGGACA GAAGAAGAAA 9780 AAGCAACTTA CCGTGCTGAT GTCGAAGCAG CTCTCGCTAA CAACGATTTA GCAGAATTAA 9840 AAAATTAAGA AAAAATAAAA GAGGTGGAGG GCAGCATTCC TTGTCGCCCG TCCCTTCTTT 9900 TTAATGGAGA CAGAAAGATG ATGAATGAAT TATTTGGAGA ATTTCTAGGG ACTTTAATCC 9960 TGATTCTTCT AGGAAATGGT GTTGTTGCAG GTGTGGTTCT TCCTAAAACC AAGAGCAATA 10020 GCTCAGGTTG GATTGTGATT ACTATGGGTT GGGGGATTGC AGTTGCGGTT GCAGTCTTTG 10080 TATCTGGCAA GCTCAGTCCA GCTTATTTAA ACCCAGCTGT GACCATCGGT GTGGCCTTAA 10140 AAGGTGGTTT GCCTTGGGCT TCCGTTTTGC CTTATATCTT AGCCCAGTTC GCAGGGGCCA 10200 TGCTGGGTCA GATTTTGGTT TGGTTGCAAT TCAAACCTCA CTATGAGGCA GAAGAAATG 10260 CAGGCAATAT CCTGGCAACC TTCAGTACTG GACCAGCCAT CAAGGATACT GTATCAAACT 10320 TGATTAGCGA AATCCTTGGA ACTTTTGTTT TGGTGTTGAC AATCTTTGCT TTGGGTCTTT 10380 ACGACTTTCA GGCAGGTATC GGAACCTTTG CAGTGGGAAC TTTGATTGTC GGTATCGGTC 10440 TATCACTAGG TGGGACAACA GGTTATGCCT TGAACCCAGC TCGTGACCTT GGACCTCGTA 10500 TCATGCACAG CATCTTGCCA ATTCCAAACA AGGGAGACGG AGACTGGTCT TACGCTTGGA 10560 TTCCTGTTGT AGGCCCTGTT ATCGGAGCAG CCTTGGCAGT GCTTGTATTC TCACTTTTCT 10620 AGTTTATACT CTTCGAAAAT CAAATTCAAA CCACGTCAGC GTCGCCTTAC CGTACTCAAG 10680 TACAGCTTGC GGCTAGCTTC CTAGTTTGCT CTTTGATTTT CATTGAGTAT TAGAAAACAA 10740 TTATGTTGAT AGAGCTTGGG CAAGAGCCCA ATTTCAGCAA AAAATGAAGT AAATCTTCTC 10800 ATAATAAAAC GCATCATATC AAGCACGAAA ATTCCACGAG GTCAACTACA GTCAGAAAGC 10860 TGAACAACAA GCCAAAAACGC CCAAAAAAGG CGGCAAAAAG CAAGCACCTG CAAGCAACGT 10920 GCCGAAATGG TCAAATCCTG ATTATGTCAA CGAATTAGAC CCAAAAATCG TTGATATGCT 10980 AGTAGAATTT CACAAGTCAC AAGGCACTTT GGAAACTCCC GAGGCGCAAG CAGAAATCGC 11040 CCAAAAACGT GAAGAAATCG AGCAAAGGAG AGCTGAGCTT GAGGGTAAAA AACAAGAGCT 11100 TTTGAACCGC TTGAACAAAT AGAGTTTCGC AAGTATTATG CTTACAAATT ACTTGAGCAA 11160 TTAACTAAAA TATAAACCCT GCCTTTATAT CTAGGCAGGG TTTATATTTT AGAAATTCAC 11220 GTAGGTTGTT ACGGTTTTTA CATACCCAGT ATAGTTTGAG TTTCTATAGT ATTCAGTGAT 11280 AAACTTCCAT TTTCTTTGAG CAACATGGAT ATAAGTACTT GTTATGTAGT ATGGATATGG 11340 GCTTTGTGAA TCCAAGTAAG ACTGATAAGC TTGTATACCA AAATATGCTC CACCAATTAT 11400

915

TGCACCCCAT	GGACCCCCCA	ATAAAGCACC	TATCCTACCA	ATCATATAAC	TGATTCCAGC	11460
ACCAGTCATG	AAGTTAGCGA	ATGTGTTAGC	TTGTTTATTC	CCATGTATTG	TGTTGACGTA	11520
ATTCCAAACA	TTAGGATCGT	ATGATCTAAA	AGATATATTT	AGGTCGATTT	CATTCTTTTG	11580
ATAAGCCATA	TAAAATGCCC	CATTGATATA	GACGCCGTCA	GCACGTCGTT	CAATAGTGTC	11640
TACACTTCCA	TCTGGATTGA	CAACCTCAAG	AACTTCATCG	СТТААААТАТ	TTACTTGCGT	11700
ATCTCCGAAC	CGCACTGATG	AGCCATTCTC	AAACTGAGCC	TCACCAGATA	CAACTTTAGA	11760
GTTTGCCGAT	AAGCTATCAT	CAGCAAAAAC	AAACAAGCGA	CGGGGAAATG	CTAGACATAC	11820
AGAAAACAGA	CATAACTAGC	AAACACATGC	ATTTAAACAT	CTTAGACATA	ACGGAAACTC	11880
CTTTGTATTT	TTGATTTTTT	TCAACTTTTA	TTATACAATA	АААССАААТА	AAAAGAAAGC	11940
GGTAACAATA	TGCTTAATGC	GAAAATTTTT	TATATATTT	TATGTTTGAT	CGTTATCGAA	12000
ACTACAGGCT	TGTTGTTGTT	GAAAAGAGGT	CTCGAAATGG	GTTATTTAGA	CACAGAAGCT	12060
ATTATCCTCG	CAGTTTTTC	ATTTGCTTTT	TACAACCTAT	GTTCATTCGC	TTGGGTCTGC	12120
ТСТАСААТАА	AAAACAATAA	ААААТАААТА	GACGTATTTT	CAAAAAAAAC	maAATGCATA	12180
TTTATATTAG	CAAAACGACG	ATTTAAATCG	TCGTTTTTTT	GTAGTACGAC	GGGCATGTCG	12240
TATATCTGAG	GTGTAAGTCC	TCAGCCTGAC	TATCGTGAGG	TAGCAGGGAG	AGGAAGGGAT	12300
AGCGAAATCG	TGGCTCTACG	AACAGGAACG	TGATAGTAAG	GCGTATATAG	CGGATAAGGA	12360
GGCTTCAAAC	TCTAAAGTCC	AAAAAGGTAG	TCGTAACCTA	TATGTGTAAA	TCACGAGAGT	12420
AATTGAATTC	GGACTAAGGT	TTGTGTGAAA	AAGATAAATC	TTTCTAGAGT	CTAAAGACTC	12480
TGCGTCAGAT	TTCCTATTTT	CACTGTAACC	TTTTAACGTC	CTCATATCTT	GTATAAACGA	12540
GGAAAGATGT	ACGACTTATC	CCGTGAGGTT	TCATGAGCGT	GAAAGCGTAG	TAACAACGAA	12600
TCATGAGAAG	TCAGCCGAGC	CCATAGTAGT	GAGGAAACTT	CCGTAATGGA	AGTGGAGCGA	12660
AGGGG						12665

### (2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 5305 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CGCTAATCAC TACAATCATT TTATTGTACT TTTTCACTCT CAAGAAAAGC AAGAAGTATT

CATTTTAGTT	TCATTTAGTA	TTATTTTGCA	916 TACCTAAAAT	ACAGTAAAAA	ATCAGTCATC	120
TTGGTATGCT	CCTGCTTTCA	CTATTCAACA	CGTTTTTGAC	TTATACTAGG	CTCATTTCCA	180
AAAGCATTAT	ATAATAGTGA	TATGAAACCA	ACTAAACTAA	ACAAGAAATA	TAAGCAATAA	240
AAATTCGTTT	AAAAGATCTT	ACTAAAGCTA	АТАСТАААТА	AAAATAAAAG	AGTAAACTAG	300
GAAGTTTATT	TCAAACAACC	TAAAATACTG	ATTTTCGGCT	GAAGATAATA	CTGGAGTGCA	360
AATTAATGGG	GTTATAATAA	ATAGCTGATA	GCTTGTGTTG	GTTTTGGATT	TTTTAAGAGT	420
AGATGAGTAT	ТААААСТАТА	AGGAGGACGA	AGGTGGCTAA	AAATTTAAAA	TTAAAATTAG	480
CTCGGGTAGA	GCGTGATTTA	ACACAAGGTC	AACTGGCAGA	GGCTGTCGGG	GTGACACGCC	540
AGACTATTGG	TTTAATAGAG	GCGGGAAAAT	ACAATCCCAG	TCTCTCGCTC	TGCCAGTCTA	600
TTTGCAGATG	TTTAGGGAAA	ACCCTAGACC	AACTATTTTG	GGAGGAAGAA	GATGAAAAAT	660
AGATTTTATT	ATTCTCAATT	ACTAGACGAA	AGAGAAGAAC	AACTGTTCAA	TAAAGCGGGC	720
TCTGAAAGTT	TCTATATCTG	CATTGCTTTG	TCGCTCCTAT	CTTATATCAT	TTCAGTATTA	780
GCACCAAGCC	TTTTTAATTC	TAATATGCTG	CTAATCGTTA	TCATCATAGG	GACATTTTAC	840
TTTTTCAATC	GTGCCCGTTA	TCTGGGAGTG	ACCTACTATG	GTCGTTTTCA	TTTTACGATT	900
TTGGGTTGTT	TTTTCCTAAC	CTTGGCTATT	ACGGCTCTTT	TGATGTTGCA	GAATTATCAA	960
TTCAACATAG	AAATTTATCA	GCACAATCCT	TTGAATTTTA	AATACCTGTC	TGCTTGGGTC	1020
ATTACTTATA	TCATTTACCT	TCCGTGGATC	TTTATTGGCA	ATCTTGGTCT	TAAGAGCTAT	1080
GGCGAATGGG	CTCAGAAAAA	ATTTGAACAA	GATATGGATG	AATTGGAGAG	TGGAGAATAG	1140
CTTGTTACTC	TTTTCTCAAT	CCAGCTAAAA	TGTGATATAA	TAGTACTAAT	TTATTGGAAT	1200
ACATGAAAGT	TCTTGAAAAT	TTTCATGGGT	TTCTAGCTAA	GGAAGTAGGA	AAAGTATGTA	1260
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CTTTGACCAA	GGGATTCACA	ATAAGAAGGC	GGTCTTTGAG	GTGTATTTCC	GCCAACAGCC	1380
TTTTAAGAAC	GGCTATGCGG	TTTTTGCAGG	TTTAGAAAGA	ATTGTGAACT	ATCTTGAAGA	1440
CTTGCGTTTT	TCAGATAGTG	ATATAGCCTA	TTTGGAGTCG	CTTGGTTATC	ATGGGGCGTT	1500
CTTGGATTAC	CTTCGCAATT	TCAAGTTGGA	GTTGACCGTT	CGTTCTGCCC	AAGAAGGGGA	1560
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GGTCGAAACG	GCTCTTTTGA	ACATCGTCAA	CTACCAGACT	TTGGTGGCGA	CGAAGGCAGC	1680
TCGTATTCGT	TCGGTTATCG	AAGATGAACC	CTTGATGGAG	TTTGGGACAC	GTCGGGCTCA	1740
AGAAATGGAT	GCGGCCATCT	GGGGAACACG	CGCAGCTGTG	ATTGGTGGCG	CCAATGGAAC	1800
CAGCAACGTG	CGTGCGGGTA	AGCTCTTTGA	CATTCCTGTT	TTGGGAACCC	ATGCCCATGC	1860

CTTGGTACAG	GTTTATGGCA	ATGACTATGA	AGCTTTCAAG	GCTTACGCTG	CGACCCACAA	1920
AAATTGTGTC	TTTCTTGTGG	ATACCTATGA	CACCCTTCGC	ATCGGTGTAC	CAGCTGCCAT	1980
TCAGGTGGCG	CGTGAGCTGG	GTGATCAGAT	TAACTTTATG	GGTGTGCGGA	TTGACTCTGG	2040
GGATATTGCC	TACATTTCTA	AGAAAGTCCG	TCAGCAACTG	GATGAGGCTG	GATTTACAGA	2100
GGCTAAGATT	TATGCTTCTA	ATGATCTAGA	TGAAAATACC	ATCCTTAACC	TCAAGATGCA	2160
AAAGGCCAAG	ATTGATGTCT	GGGGTGTGGG	TACCAAGCTG	ATTACAGCCT	ATGACCAGCC	2220
GGCTCTTGGG	GCGGTTTACA	AGATTGTTGC	AATCGAAGAT	GAAACTGGTC	AGATGCGCAA	2280
TACGATTAAG	CTGTCTAATA	ATGCTGAAAA	AGTTTCTACG	CCAGGTAAGA	AGCAGGTGTG	2340
GCGCATTACC	AGTCGTGAAA	AAGGCAAGTC	AGAAGGCGAC	TATATCACTT	ATGATGGTGT	2400
GGATATTAGC	GACATGACAG	AAATCAAGAT	GTTCCATCCG	ACCTATACAT	ACATCAAGAA	2460
GACGGTTCGT	AATTTTGATG	CCGTTCCTCT	CTTGGTGGAT	ATCTTCAAAG	AAGGAATATT	2520
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GTTGTGGGAT	GAGTATAAGC	GTGTGCTCAA	TCCGCAGCAC	TATCCAGTGG	ATTTGGCGCG	2640
TGATGTATGG	CAAGATAAGA	TGGACTTGAT	TGATAAGATG	CGCAAGGAAG	CCCTTGGTGA	2700
AGGAGAAGAA	GAATGAGTTT	GCAAGAAACG	ATTATCCAAG	AGCTGGGTGT	CAAACCAGTG	2760
ATTGATGCCC	AGGAAGAAAT	CCGTCGTTCT	ATTGATTTCT	TAAAAAGATA	TCTGAAAAA	2820
CATCCCTTCC	TAAAAACCTT	TGTACTAGGG	ATTTCTGGGG	GACAAGACTC	AACCTTGGCA	2880
GGACGTTTGG	CGCAATTAGC	TATGGAAGAA	CTGCGAGCTG	AAACGGGAGA	CGATAGCTAC	2940
AAATTTATCG	CTGTCCGCCT	GCCATACGGA	GTGCAAGCTG	ATGAAGCAGA	TGCTCAAAAA	3000
GCCCTAGCCT	TCATCCAGCC	AGATGTCAGC	TTGGTTGTGA	ATATCAAGGA	ATCAGCTGAT	3060
GCCATGACAG	CTGCAGTTGA	AGCGACAGGT	AGTCCTGTTT	CAGACTTCAA	CAAGGGGAAT	3120
ATCAAGGCAC	GTTGCCGTAT	GATTGCTCAG	TATGCCCTTG	CTGGTTCCCA	TAGCGGAGCG	3180
GTCATTGGAA	CAGACCACGC	CGCGGAAAAT	ATCACAGGTT	TCTTTACCAA	GTTTGGTGAC	3240
GGCGGTGCGG	ATATTCTCCC	TCTTTACCGC	CTCAATAAAC	GCCAAGGAAA	ACAGCTCTTG	3300
CAGAAACTTG	GCGCAGAGCC	AGCCCTTTAT	GAAAAAATCC	CAACGGCAGA	CCTAGAAGAA	3360
GATAAACCAG	GCCTAGCTGA	CGAAGTCGCA	CTTGGAGTCA	CCTACGCAGA	GATTGACGAC	3420
TACCTAGAAG	GCAAAACAAT	CAGCCCAGAA	GCTCAAGCGA	CCATTGAAAA	CTGGTGGCAC	3480
AAAGGCCAAC	ACAAACGCCA	CTTACCCATC	ACCGTATTTG	ATGACTTTTG	GGAGTAAAAA	3540
GGTCCGGGGG	ACCTTTTTAG	CTTCTTGCCC	TGAAATTAAA	AAGCAAGAAA	AACCTCCACT	3600

			918			
GGAGGTTTTC	AGCCTCTCAT	CTTGAAATAA		GAAGGTCTGG	GGGATCTTGA	3660
ACCCCGAGTT	TAGAAATAAG	AAAATGAGGC	AGATTCAGTA	ACTCGAAGAG	TTCGATTTCA	3720
TCGTCTTACC	CCTGCAACGA	TGACTAGGTT	TGAAAAAGCT	TGCTAGAGCG	CATTTCAAAC	3780
CAGGCAGCAA	CTGCGTCAAG	AAATTAGAAG	ACAAACTCGT	TTTCTAGCTG	TTACTGAGTT	3840
GAGCCTTTTT	ACTACGAGTA	TAGAAATAAG	GAAGTGAGGT	AGCATCATGA	AATCTATCGG	3900
TACGCAAATA	TTACAGACAG	AACGTTTGAT	TTTAAGAAGA	TTTGTGGAGA	GTGATGCAGA	3960
AGCCATGTTT	CAAAATTGGG	CTTCATCCGC	TGAGAATCTG	ACCTATGTTA	CCTGGGATCC	4020
CCATCCTGAT	GTCGAAATCA	CTCGAAACTC	GATTTGCAAT	TGGGTTGCTT	ССТАТАСТАА	4080
TCTCAACTAT	TATAAATGGG	CCATTTGTCT	AAAAGAAAAC	CCAGAGCAAG	TAATAGGAGA	4140
TATCAGCATT	GTTAAGATAG	ACGAGGCTGA	TTTAAGCTGT	GAAATTGGCT	ATGTGTTAGG	4200
CAAGGCTTAC	TGGGGAAATG	GTATGATGAC	AGAGACTTTG	AAAGCTATCT	TGGACTTTTG	4260
TTTTACTCAA	GCAGGTTTTC	AAAAGGTCAG	AGCACGTTAT	GCCAGTCTCA	ACCCAGCTTC	4320
AGGTCGTGTC	ATGGAAAAGG	CTGGAATGTC	CTATCTACAA	ACCATTGTTA	ATGGTGTAGA	4380
GAGAAAAGGC	TATCTTGCGG	ATCTTATTTA	TTATGGTATA	AGTAGGGAAG	AATGTTGAAT	4440
TCTATTTTCT	GTTTCTATCG	AAGTCAACTA	TTTATTGTAA	ATATAATAAT	TAGCATTCCA	4500
AGTTTATTTG	AAACTTTAAA	ATAGCATATT	GATTAGTACA	AGACAGATGT	TCTAGTTCCT	4560
TCTTTAATCT	GGTTTAGTGT	TAGTTAAAAA	ATCGCTTTAA	GCTTGTAACT	AAGAGGGAGC	4620
TAATCGACTA	GATTCTCCAG	CCGAACAGGI	GGTAATGTAC	TTTTTATAGT	GTAATCCTAG	4680
CTGTTGTTAA	ATTTAAAATA	GAATCCTCTA	TCGAGTTAGG	GAATTAAATT	CAACCAATTT	4740
TATTCATGTT	TTTTCTATCA	AATTATCTAA	TATTAAAATA	GTCTCATTCT	GATGAGAAAA	4800
CTATTCCCAA	ATCATTCATA	CCTCTCTCAA	CTAGATGTAA	CTTACAAAAC	CCCTGACCTC	4860
ATGAGCCACT	TTCTTCCTCC	TCATGAGGTC	AGTTTTACTT	TCTGCTGTTC	CAGTATCGTT	4920
TTTCCTCGCT	AGATTTCCTC	AAAAGGGCAG	ACTCCTCCCT	TGGTGCGTCA	CACGATTTTT	4980
TCATCTCGAC	TGTTCTTTAA	TGCATCATTA	ACGACGCTTT	TCTTCTAGGT	GGTTCATAAG	5040
GAACAGGAAG	ATTCAGGTTG	ACTTTTCTAA	TCCTAGAATA	AAGTGCTGAA	AACAATTCGG	5100
AATAGGCATA	GAGACTAGAC	AATTTGAGGA	GCTGCTTGCG	TCCTGTTCGA	ACACATTTTC	5160
CCACCACGTG	AAGAAAAAGA	TGGCGGAAGC	GTTTGATTGT	TAAAGTTTGG	AAGTCACCTC	5220
CAGCTAGATG	TTTGAGAAAA	AGATAGAGAT	TGTAGGCGAT	ACAGCTCATC	ATCATACGAA	5280
CTTCGTTTTT	GATTAAGGTT	GAACT				5305

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 136:

919

### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3964 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

TGGCAGCTCG	TCGTCGTAAA	GGACGCAAAG	TTTTGGCTGC	ATAATCCAAA	CGAATTCTAT	60
CAAAAATCAG	TAGGAACTCG	AGTCTACTGA	TTTTTATTTT	TGTAAAAAAG	TTCAGTAGAT	120
GCAAATGGAT	TCGGAAGCGA	TGTTACAGTA	GATTGAAACT	AGAATAGTAC	ACCTCTGTTT	180
CTAAAACATT	GTTAGAAATC	GATTTGACTG	TCCTGATCGA	TTTGTCCTGT	TATTATTTTA	240
TTTTACTATA	AAGTTGAAGT	AGGTGGAGAT	GGTACAGCAA	CAATCGTCTT	TAAAGATGGT	300
TCAGCTATTA	CAATTCCAGG	AAATCAATTG	GTAGCACAAG	ATCCAAAAGC	ACAAGATAGC	360
ACTAAACTGA	CTGCTGAAAA	ATCAACTGTT	AAAGCACCTG	CTCAAAGAGT	AGATGTAAAA	420
GATATAACTC	ATTTAACAGA	TGAAGAAAAA	GTTAAGGTTG	CTATTTTACA	AGCAAATGGT	480
TCAGCATTAG	ACGGAGCGAC	AATCAATGTA	GCTGGAGATG	GTACAGCAAC	AATCACATTC	540
CCAGATGGTT	CAGTAGTGAC	GATTCTAGGA	AAAGATACAG	TTCAACAATC	TGCGAAAGGT	600
GAATCTGTAA	CTCAAGAAGC	TACACCAGAG	TATAAGCTAG	AAAATACACC	AGGTGGAGAT	660
AAGGGAGGCA	ATACTGGAAG	CTCAGATGCT	AATGCGAATG	AAGGCGGTGG	TAGCCAGGCG	720
GGTGGATCAG	CTCACACAGG	TTCACAAAAC	TCAGCTCAAT	CACAAGCTTC	TAAGCAATTA	780
GCTACTGAAA	AAGAATCAGC	TAAAAATGCC	ATTGAAAAAG	CAGCCAAGGA	CAAGCAGGAT	840
GAAATCAAAG	GCGCACCGCT	TTCTGATAAA	GAAAAAGCAG	AACTTTTAGC	AAGAGTGGAA	900
GCAGAAAAAC	AAGCAGCTCT	CAAAGAGATT	GAAAATGCGA	AAACTATGGA	AGATGTGAAG	960
GAAGCAGAAA	CGATTGGAGT	GCAAGCCATT	GCCATGGTTA	CAGTTCCTAA	GAGACCAGTG	1020
GCTCCTAATG	CTGCTCCTAA	GACAACAAGT	GCACCGCAAG	CAACTGCAGG	AACAATGCAA	1080
GATGTTACCT	ACCAGTCACC	TGCTGGCAAA	CAATTACCTA	ACACAGGTTC	AGCATCAAGT	1140
GCAGCACTTG	CTAGTCTTGG	TCTAGTGGTG	GCAACAAGTG	GTTTTGCTTT	GCTAGGAAGA	1200
AAGACTAGAC	GTAGAAAATA	GAACAGCTAG	AAAATTCTAT	TCTCTACTTA	AAGTTAGATT	1260
ATAAGGGGGA	TTTTGAGAAG	TCATCAATCC	TAGTGATGGG	TGAGAAAAGT	GAGAACCCAA	1320
GATAATCACA	TACTTTAGCT	GAATAGGAAT	ATTCTATCAA	TGTAGCCAAT	CTCTTCTGTC	1380
TCTAACTGTG	GAATAGGAGA	TGGGCAATAT	CGGATAGAAA	AGATAGCAGA	ATAGCTCTCT	1440

			920			
ATTGAAGAGA	GGAGGGGAAA	CCGAAAAATT	AGGTGCCCCT	CCTCTTTTTT	GGTATAATAG	1500
AAGATAGAAA	ACGAGGTTAG	AAGAGATGAT	TTTTGATACA	CATACACACT	TGAATGTAGA	1560
AGAATTTGCA	GGTCGTGAGG	CAGAAGAAAT	TGCCTTGGCT	GCTGAGATGG	GTGTGACACA	1620
GATGAATATT	GTTGGTTTTG	ATAAACCGAC	GATTGAGCAT	GCCTTGGAGT	TGGTAGATGA	1680
GTATGAGCAG	CTCTATGCGA	CTATTGGTTG	GCATCCTACA	GAAGCTGGTA	CTTATACAGA	1740
GGAAGTTGAG	GCTTACTTGT	TGGATAAGTT	AAAACATTCC	AAGGTTGTGG	CTTTAGGTGA	1800
AATTGGCTTA	GATTACCATT	GGATGACAGC	GCCCAAAGAG	GTGCAGGAGC	AGGTTTTTCG	1860
CCGTCAGATT	CAGCTATCTA	AGGACTTGGA	TTTGCCTTTT	GTTGTCCATA	CCCGTGATGC	1920
GCTGGAAGAT	ACCTATGAGA	TTATCAAGAG	TGAGGGCGTT	GGTCCTCGTG	GTGGTATCAT	1980
GCATTCATTT	TCAGGGACGC	TTGAGTGGGC	AGAGAAGTTT	GTGGATCTTG	GTATGACCAT	2040
TTCCTTCTCA	GGAGTGGTGA	CTTTTAAGAA	GGCAACTGAC	CTCCAAGAAG	CAGCTAAAGA	2100
GTTACCTTTG	GACAAGATGT	TGGTGGAAAC	AGATGCGCCT	TACTTAGCAC	CTGTACCCAA	2160
GCGTGGTCGT	GAAAATAAAA	CAGCCTATAC	TCGCTATGTG	GTCGACTTTA	TCGCTGACTT	2220
GCGTGGTATG	ACGACAGAAG	AGCTGGCGGT	AGCAACGACT	GCAAATGCAG	AACGAATTTT	2280
IGGACTGGAC	AGCAAGTAAT	GAAAGAGAAA	ATTTCTCAAG	TTATCGTGGT	TGAAGGGCGT	2340
GATGATACGG	TCAATCTCAA	ACGTTATTTC	GATGTGGAGA	CCTATGAGAC	TCGAGGTTCT	2400
GCCATCAATG	CTCAGGATAT	AGAGCGGATT	CAGCGCCTGC	ACCAACGTCA	TGGAGTCATT	2460
GTCTTTACAG	ACCCAGATTT	TAATGGGGAA	CGGATTCGGC	GCATGATCAT	GATGGTCATT	2520
CCAACAGTTC	AGCATGCCTT	TCTCAAGCGA	GATGAAGCTG	TTCCCAAGTC	CAAGACCAAG	2580
GGCGTTCTC	TGGGAATTGA	GCATGCCAGC	TATGAAGACC	TGAAAACGGC	TCTAGCTCAA	2640
GTGACAGAAC	AATTTGAACA	TGAGAGTCAG	TTTGACATTA	GTCGTAGCGA	TTTGATTCGC	2700
CTTGGTTTTC	TAGCAGGGGC	AGACAGCCGT	AAGCGTAGAG	AATATCTCGG	AGAGACTCTC	2760
CGAATCGGCT	ATTCCAACGG	CAAGCAACTC	CTCAAACGCC	TAGAGTTGTT	TGGGGTTACT	2820
TTGGCAGAAG	TGGAAGAAGC	TATGAAATCT	TATGAGTAGG	AAAGATGTAG	CCGTTACAAT	2880
TTTTTAAGTT	TCACAGTATT	TTTCGAAGCA	GGTAGAAGAG	GAGGCGTCTG	ATGTTAATTG	2940
GTCAAAAAAT	TAAAGAGATT	CGGATAGAAA	AAGGAATTAG	TCGTCCAGAT	TTTTGTGGAG	3000
ATGAGCAAGA	ACTGACAGTT	CGTCAACTGT	CGCGAATTGA	AAGTGGAGCT	TCGCAACCGA	3060
GTTTGCCCAA	GTTAGACTAT	ATTGCTCGCC	GGCTAGGAGT	TCCAGTTTAT	AGCCTTATGC	3120
CGGATTTTTC	AGCTCTTCCT	TCTGCTTATT	TAGAATTGAA	ATACCAGATT	TTACGTGAAC	3180
CAATCTATGG	TAAAGAAGAG	GAGTACGATA	AGAAGGAAGC	GTGTTTGGAA	GAGATTTATA	3240

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AAACATACTT	TGATAATCTT	CCTAAAGAAG	AACAATTAGC	ATGTGAAGTA	TTGCAGGCGT	3300
GTTTGGATAC	TTCTAGAACT	AGAAGGCCTG	AATATGCAGA	GTTAATACTT	GAGGAACATA	3360
TGCCTCAGAT	TATAGAAAAA	GAAGCTTATT	CAATAAATGA	TATGTTGTTG	ATTCGTTTGT	3420
TTTTTTATCA	AATGCTCATT	AGAAAAGATC	TTGCCAAATT	TATAAATCAA	ATCGAAAAGC	3480
TAATGCTCTT	TCTTTTGGAA	CAGAAGAAGG	TAACTCAAAT	AGAGAATTAC	TTTATAATTA	3540
GAGATACTCT	TATTTCAGGA	ATGTGTTGTC	TTGAAAAGGT	AGGAGTAACT	GATTGTTTTA	3600
ATGATTATCT	ATCGTGTTTA	CAAGAAATTA	TGGATAAAAC	TCAAGATTAT	CAAAAGAAAC	3660
CTCTTGTATT	TATGTTTTTG	TGGAAGCAAG	CATTAAGAGA	AGAAAGAGAT	TTTAGTTTAG	3720
CTGAATCATT	TTATCAGTCT	TCTAAAACAT	TTGCGCAGCT	AATTGGAGAT	GAATTTCTAG	3780
TAAAGAAATT	GACAGAGGAA	TGGCAAGAGG	ATGTCAAAAA	ATATTTATAA	ACATAGTGAA	3840
TCAGTGACAA	AGATGTCCTT	GTCCTCGTAT	CAAAACAGTT	CTAAAGTTCG	TCTTTAGGGA	3900
TGTTTTTTA	GATATAAGCT	AAAAATGACA	CGAAATGGTT	AGATTTTAAG	GACATTGATG	3960
TCCG						3964

# (2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12666 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

TGAGACCGTT	ATTTGTATTA	GGGAAATGGG	TATCTATTTT	TAATGCTGTG	GGGATTTTGA	60
TTGTTTCTAT	TATTCAAACC	AAAAGCTTGT	CAGGTATTGG	AGCAGGATTG	TTTAATCTAT	120
ATAACATTTC	ATCTTATATA	GGTGATTTAG	TTAGTTTCAC	TCGATTGATG	GCATTAGGAT	180
TATCTGGAGC	AAGTATAGCA	TCAGCTTTCA	ATTTAATTGT	TGGTTTGTTT	CCGGGAATAT	240
TGGCTAAACT	GACAATTGGA	TTAGTATTAT	TCATTCTTTT	ACATGCGATC	AATATTTTTC	300
TATCGTTACT	ATCAGGATAT	GTTCATGGAG	CACGTCTGAT	ATTTGTTGAA	TTTTTTGGTA	360
AGTTTTATGA	GGGTGGAGGA	AAACCATTTC	AACCTTTGAA	GGCTTCTGAG	АААТАТАТТА	420
AGGTTATTAC	AAAGAATTAA	TGGAGGATAT	ATATAATGGA	ACATTTAGCA	ACTTATTTTT	480
CAACCTATGG	AGGAGCTTTC	TTCGCTGCAT	TGGGAATTGT	ATTGGCGGTT	GGATTAAGCG	540
GTATGGGGTC	TGCTTATGGA	GTTGGTAAGG	CTGGGCAATC	TGCCGCAGCT	TTACTGAAAG	600

			922			
AACAGCCTGA	AAAGTTTGCC	TCAGCTTTGA	TATTGCAATT	ATTGCCCGGA	ACACAAGGAT	660
TATATGGTTT	TGTTATTGGA	ATTTTAATTT	GGTTGCAATT	AACTCCAGAA	CTTCCTTTAG	720
AAAAAGGCGT	TGCTTATTTC	TTTGTAGCTC	TTCCAATTGC	TATTGTAGGA	TACTTTTCAG	780
CTAAGCATCA	AGGAAATGTA	GCAGTAGCGG	GAATGCAAAT	CTTGGCTAAA	AGACCAAAAG	840
AATTCATGAA	GGGAGCAATT	TTAGCTGCCA	TGGTAGAAAC	CTATGCAATT	CTTGCTTTTG	900
TCGTATCATT	CATTTTGACC	CTTCGTGTAT	AAGAAATAAA	TTTGCAATTC	AAAGGAGGTG	960
TCTAAATGAG	CAATTTAGAA	AACTTACGAG	AGTCTGTTAT	TGAACAAGCT	CATGAAAAAG	1020
GGCGTATGAA	ATTATTGGAT	TCCAAAAAGA	AGATTGATGA	TGAATTTGAA	ATGCAAAAGT	1080
CGCTCATTAT	AAAGAAAAA	GAAGCTGAAC	ATGAACGAAA	GTTAAAAGAA	TTGCAACAGA	1140
AATATCAAAT	AATTTTTCAA	CAATTAAAAA	ATAAGGAACG	CCAATCAACG	TTAGTATCAA	1200
AACAGAAAAT	ATTAAAAGAA	CTTTTTCAAT	CTGCTTTACT	AGAAATGGAA	TCTTGGAGTG	1260
CAGATAAAGA	AATGGAGTTC	ATCTATCGAA	TTCTGGAACG	ATATTCACAA	CAAGAGGTCA	1320
PAGTAACCTT	TGGGGAACGG	ACTTTAGCTA	AATTCAATTT	GGAACAATTA	GAGAAATTGA	1380
AATTCTCTTT	TCCAAATTAT	TTATTTAGTG	AACAACCTAT	CTCAAATGAA	TCAGGCTTAC	1440
FTATTTCAAT	AGGTAAAATT	GATGATAACT	ATTTGTATAA	AACATTAATT	GGATCGATTT	1500
CTAAGGAAGA	AAGTTCAAGT	ATCGCAAATC	AAATTTTTAT	CAATTAAGGA	TGAAATTGGT	1560
PAATCCTTCT	TAGAAATTTG	GAGTATTCCA	ATAAAATTAG	AAAGGTATTT	TATGGATACT	1620
AATCTTTTTT	CAAAAATAAA	TACGACGATT	TCGGTAAAAG	AAAACGATTT	TATTACAGAA	1680
GAAAAATTTC	AAAAATTAT	ACAATCCAAA	GATACGGAGA	CATTGGCATT	TATCTTAGAA	1740
TCAACTCCCT	ATCATTTATC	GATTGACATC	TTAGAAGATC	CTAGTCAGAC	AGAGATTTCG	1800
CTAATGACAA	AATTAGTCAA	TGATTATAGA	TGGGCCTATG	CTGAAAGTCC	GTCTGATATA	1860
ATTGTGACTT	TATTTGCTTT	ACGATATGTT	TATCATAATA	TCAAAGTTTT	ATTAAAATCT	1920
AAGGCGGCAA	TTAAGAAAGA	TTTTTCTAAA	TTATTAATTC	CAATAGGGAT	TTTTGATATA	1980
GAAAGTTTAA	AACATTTAGT	TTCTTCCTTA	CATTCAGATA	CACTTCCTGA	TTTTATGGTT	2040
CGTGAAGTAG	AATCAATTTG	GAATGAGTAT	GAAACTTTTA	ATAATATTCG	TGTACTTGAT	2100
STCGGAGCTG	ATCTAGCATA	TTTTAAACAT	CTGAAACTTT	TATCTAATGA	GTTAGATGAG	2160
GTACTGTCTC	AGGTTATTGT	CGAAATGATT	GACTTTTATA	ATATTATTAC	TGTAAAACGT	2220
GTTTATCTC	AAAATAAGAG	TCATGGGGAT	ATTTTACAAT	TACTTTCAGA	TGAAGGAAGT	2280
ATTTCTGCTA	AAGAATTTAT	ATACATTGTA	GAAAATCAAG	AAATATTTGT	GTGGTTCAAT	2340
AAATAAATC	CAAGCTTAGA	TTCAATCTTT	TCAACTTATG	AATTGAAGAT	GCAGGACGCA	2400

ACAATTTCAT	CTTCTGAGTT	AGAATTTTTA	TGTGATTTAC	TATTGTATAA	AACTTTAGAT	2460
CAAGGAAGGT	ACAATGTAGA	GGGGCCGTTA	GTTCTTGCTA	GATATTTATT	GGGATGTGAG	2520
TTTGAAGTAA	AGAATCTCAG	AATGATCATA	TCAGCTCTTC	AAAATACAAT	TCCCTTTGAA	2580
TCAATAAAAG	AAAGGATACG	CCCACATTAT	GGAAGCTAAT	AAGTATAAAA	TTGGCATAAT	2640
TGGTAGCCGT	GATATTATTT	TACCATTTAG	CATGATTGGG	TTTGATATAT	TTCCTGCCTA	2700
CCAAGAACAA	GAAGCTATAA	ATACACTAAG	AAAATTAGCT	CAATCTGATT	ATGGTGTCAT	2760
TTATATCACT	GAAGACATTG	CTTCAATGAT	ATTAGATACA	ATTCGCCATT	ATGATTCCCA	2820
AGTTGTGCCT	GCTATTATTT	TATTACCGAC	TCATAAACAA	GGTTTAAATT	TAGGATTAAA	2880
ACGTATAGAG	GATAATGTAG	AGAAAGCAGT	AGGACACAAT	ATTTTATAAT	AATGTACAAA	2940
ATTGTCTGTA	ATATTATTCT	ATAATTTTTG	GACTTAGTAA	GGAGAATAAC	TTTGACTCAA	3000
GGGAAGATTA	TAAAAGTATC	GGGACCTCTA	GTTATTGCAT	CAGGTATGCA	GGAGGCTAAT	3060
ATTCAAGATA	TTTGCCGTGT	AGGTAAGCTA	GGGTTAATCG	GTGAAATTAT	TGAAATGAGA	3120
AGAGATCAGG	CATCTATCCA	AGTCTATGAA	GAAACATCTG	GTCTTGGTCC	GGGAGAACCT	3180
GTTGTTACAA	CTGGAGAACC	TCTCTCGGTT	GAATTAGGGC	CAGGATTGAT	TTCTCAAATG	3240
TTTGATGGCA	TACAACGCCC	ATTAGATCGA	TTTAAATTGG	CTACTCATAA	TGATTTTCTA	3300
GTTCGTGGGG	TAGAAGTTCC	AAGTTTGGAT	AGAGATATTA	AGTGGCATTT	TGATTCCACT	3360
ATAGCAATTG	GTCAAAAAGT	GAGTACGGGT	GATATTCTTG	GAACTGTCAA	GGAAACCGAG	3420
GTAGTTAATC	ATAAAATTAT	GGTTCCTTAT	GGAGTATCTG	GAGAAGTCGT	TTCTATTGCA	3480
TCTGGCGATT	TTACAATTGA	TGAAGTTGTA	TATGAAATAA	AAAAATTGGA	CGGTAGTTTC	3540
TATAAAGGAA	CGCTTATGCA	AAAATGGCCT	GTCCGCAAGG	CGCGTCCTGT	TTCTAAACGT	3600
TTAATTCCAG	AAGAACCATT	AATCACAGGT	CAACGAGTTA	TTGATGCATT	CTTTCCAGTA	3660
ACCAAAGGGG	GAGCTGCAGC	AGTTCCTGGA	CCGTTTGGAG	CAGGAAAGAC	AGTTGTACAA	3720
CACCAAGTAG	CTAAATTTGC	CAATGTTGAT	ATTGTTATTT	ATGTCGGTTG	TGGAGAACGT	3780
GGAAATGAAA	TGACGGATGT	ACTGAATGAG	TTTCCTGAGT	TGATTGACCC	TAATACCGGA	3840
CAATCAATTA	TGCAACGGAC	AGTTCTGATT	GCTAATACTT	CAAATATGCC	TGTTGCTGCT	3900
CGTGAGGCTT	CAATTTATAC	AGGAATTACC	ATGGCTGAGT	ATTTTCGTGA	TATGGGCTAC	3960
TCTGTCGCCA	TTATGGCTGA	TTCAACTTCA	CGTTGGGCAG	AAGCGCTACG	TGAAATGTCA	4020
GGACGTCTAG	AAGAAATGCC	TGGTGATGAG	GGTTATCCTG	CTTATCTGGG	AAGTCGTATC	4080
GCTGAATATT	ATGAAAGAGC	AGGACGTTCT	CAGGTTCTAG	GGCTTCCAGA	ACGTGAAGGA	4140

ACGATTACTG	CTATTGGAGC	TGTATCGCCA	924 CCTGGTGGAG	ATATTTCAGA	ACCAGTTACT	4200
CAAAACACTT	TACGGATTGT	GAAAGTTTTT	TGGGGGCTTG	ATGCTCCGTT	GGCACAGCGA	4260
CGTCATTTTC	CTGCAATTAA	CTGGCTTACA	TCTTATTCAC	TATATAAAGA	CAGTGTGGGC	4320
ACTTATATAG	ATGGTAAAGA	GAAGACAGAT	TGGAATAGTA	AAATAACTCG	TGCGATGAAC	4380
TACTTACAAC	GGGAATCTAG	TTTAGAGGAA	ATTGTTCGTC	TTGTTGGAAT	TGATTCTCTG	4440
TCTGATAATG	AACGACTAAC	GATGGAAATT	GCTAAACAAA	TTCGAGAAGA	TTATTTGCAA	4500
CAGAACGCTT	TTGATTCGGT	AGATACATTC	ACTTCGTTTG	CAAAACAAGA	AGCAATGCTA	4560
AGTAATATTC	TCACTTTTGC	TGATCAGGCA	AATCATGCTT	TAGAGTTGGG	TTCTTACTTT	4620
ACAGAGATTA	TGGAAGGTAC	CGTGGCAGTT	CGAGACCGTA	TGGCGAGAAG	TAAATATGTT	4680
TCAGAAGATA	GATTAGATGA	AATCAAAATT	ATATCAAATG	AGATTACACA	TCAAATTCAT	4740
TTGATATTAG	AAACAGGAGG	TCTATAAATG	AGTGTTATAA	AAGAATACAG	AACTGCTAGT	4800
GAAGTTGTTG	GGCCTCTTAT	GATTGTTGAA	CAAGTAAATA	ATGTGTCTTA	CAATGAGTTA	4860
GTTGAAATTC	AACTTCATAA	TGGAGAAATT	CGTCGTGGAC	AAGTTTTAGA	GATCCACGAA	4920
GATAAAGCAA	TGGTTCAGCT	TTTTGAAGGA	TCTAGTGGAA	TAAATTTAGA	AAAGTCTAAA	4980
ATTCGTTTTG	CTGGTCATGC	ATTAGAATTG	GCTGTATCTG	AGGATATGGT	TGGTCGTATT	5040
TTTAATGGGA	TGGGAAAACC	AATTGATGGT	GGACCAGATT	TAATTCCAGA	GAAATATTTA	5100
GATATTGATG	GTCAAGCTAT	TAATCCTGTA	TCTAGAGATT	ATCCAGATGA	ATTTATTCAG	5160
ACAGGGATCT	CCTCTATTGA	TCATTTGAAT	ACTCTTGTAC	GTGGTCAAAA	ATTACCAGTA	5220
TTTTCAGGTT	CGGGCTTACC	TCATAATGAA	TTAGCTGCTC	AGATAGCAAG	ACAAGCGACT	5280
GTTTTAAATT	CTGATGAAAA	TTTTGCGGTT	GTATTTGCAG	CAATGGGTAT	TACTTTTGAA	5340
GAAGCTGAGT	TTTTTATGGA	AGAACTCAGA	AAAACAGGAG	CGATCGATCG	TTCGGTTTTA	5400
TTTATGAACT	TGGCAAATGA	TCCTGCAATT	GAGCGTATTG	CAACTCCCCG	CATTGCTTTA	5460
ACTGCGGCAG	AGTATCTAGC	TTTTGAAAAA	GATATGCACG	TTCTAGTTAT	CATGACGGAT	5520
ATGACTAACT	ATTGTGAAGC	GTTACGTGAA	GTCTCGGCAG	CTCGCCGTGA	AGTTCCAGGG	5580
AGACGAGGCT	ATCCGGGATA	TTTATATACA	AATTTATCAA	CTCTATACGA	AAGGGCTGGT	5640
CGCTTAGTTG	GTAAAAAAGG	TTCGGTGACA	CAGATTCCTA	TTTTAACAAT	GCCAGAAGAT	5700
GACATAACAC	ATCCAATTCC	TGATTTAACT	GGATACATTA	CTGAAGGGCA	AATTATTTTG	5760
TCGCATGAGT	TGTATAATCA	AGGTTATCGT	CCACCAATCA	ATGTTTTACC	TTCTCTCTCT	5820
CGATTAAAAG	ATAAGGGATC	TGGAGAAGGT	AAAACTCGTG	GAGATCATGC	TCCAACTATG	5880
AATCAACTGT	TTGCAGCCTA	TGCCCAAGGG	AAAAAGGTTG	AAGAGTTAGC	AGTAGTATTA	5940

GGAGAATCGG	CTTTATCTGA	TGTAGATAAA	TTGTATGTGA	GGTTTACAAA	GCGTTTTGAA	6000
GAAGAGTACA	TAAACCAAGG	ATTTTATAAA	AATCGAAATA	TAGAAGATAC	GTTGAATCTT	6060
GGGTGGGAAT	TACTATCAAT	TCTTCCTAGA	ACAGAGTTAA	AACGTATCAA	AGATGATTTG	6120
CTTGATAAAT	ACTTACCTTT	GGTAGAAGTT	TAATCCGGAA	ATGGAGTGAT	TATCTATGGT	6180
ACGTTTGAAT	GTAAAACCAA	CTCGTATGGA	ATTGAATAAC	TTAAAGGAAC	GTTTGACAAC	6240
AGCTGAACGT	GGACATAAGT	TATTAAAGGA	TAAAAGAGAT	GAATTGATGA	GGCGATTTAT	6300
TTCTTTGATT	CGTGAGAATA	ATCAACTTCG	GAAAGAAGTG	GAAAGTTATC	TAATTGATAA	6360
TCTAAAATCC	TTTGCAGTTG	CTAAATCATT	AAAGAATTCT	CAAATGGTGG	AGGAATTATT	6420
TTCAATTCCA	TCGAAAGAAA	TTGAATTATT	TGTTGAGAAA	GAAAATATCA	TGAGTGTAAC	6480
AGTTCCTAGA	ATGCATATGA	ATATTACTTC	TCAAAATGAG	AACAGTGAAT	ACAGCTATTT	6540
ATCTTCTAAT	AGTGAAATGG	ATGATGTATT	TGCTACAATG	AATAGTTTAA	TTTATAAATT	6600
ACTAAGACTG	GCAGAAGTTG	AAAAAACGTG	TCAGTTAATG	GCTGATGAAA	TAGAAAAAAC	6660
ACGTAGACGT	GTAAATGGTT	TAGAATACTC	GATTATTCCA	AACTTGTCGG	AAACTATTCA	6720
PTATATAGAA	TTGAAACTAG	AGGAGGCAGA	AAGAGCCAAT	TTAGTTCGTA	TTATGAAAGT	6780
GAAGTAGATC	CTTTATTTAG	ATTATTAATT	AGATGAACAA	ATATCAGCTT	GGATAAGGCT	6840
TTAAGCCTTT	CTAAGCTTTT	TTTATTGACA	GTATCAGGAT	ATCTTTTCA	AAATTTTGGT	6900
TTGTTAGATA	ATGAAAATGT	TTCTACTAAT	CTAGATTTAG	GATTAGTAAA	TCGTAAATGT	6960
AATTATATAG	AAAGTAAGCG	CGTCATAACA	AGGTATCTAT	CATTCATGGA	GCTCCTCCTG	7020
PATACTATTA	GTAAAGTAAA	ACTATTGGAG	GATATTTTAA	TGCCACAACC	TATTGTTCCT	7080
GTAGAGATTC	CACAATCTCG	TCGTTTTGAT	TCTAAAAAGA	GAAATGATAT	TCTGCTTAAA	7140
ATTCGTATTG	GCAAGCTTGA	AGTAAGTTTT	TTTCAATCTC	TCAATCTCGA	AATGGTAGAA	7200
CAGCTTTTGG	ATAAGGTGTT	GCTCTATGAC	AATTCATCTA	TCTAGCCTAG	GGGAGGTCTA	7260
PCTCGTGTGT	GGGAAAACTG	ATATGAGACA	AGGAATCGAT	TCACTGGCTT	ATCTGGTTAA	7320
AACCCACTTT	GAATTGGATC	CTTTCTCCGG	TCAAGTCTTT	CTCTTTTGTG	GTGGACGTAA	7380
AGACCGCTTT	AAAGTCCTTT	ACTGGGATGG	TCAAGGATTT	TGGCTACTAT	ATAAACGCTT	7440
rgagaacggc	AGATTGATTT	GGCTAAGTAC	AGAAAAGGAT	GTCAAAGCTC	TCACACCAGA	7500
ACAAGTAGAC	TGGCTTATGA	AGGGCTTTTC	TATCACTCCA	AAAATATAGT	AGATTGAAAC	7560
PAGAATAGTA	CACCTCTGCT	TCTAAAACAT	TGTTAGAAAT	CGATTTTACT	GTCCTGATCG	7620
ATTTGTCCTG	TTCTTATTTC	ATTTTACTAT	AAATCCATCA	GAAAGTCGTG	ATTTCTATTG	7680

			926			
AAATGAGGAC	TTTCTTTTTA	TACTCATCTG		GCATTCTAGT	CCATCTCCGA	7740
TTAACGATGG	ACTTTATCAC	CTCCTTCTCC	AGTCCTTGTA	TAACATCTTG	GAGTTGATTC	7800
ATGACATCTT	CCAAAGTTTA	AAAGGCTTTA	TTCTTAAATC	CACGTTTACG	AATCTCTTTC	7860
CACACTTGTT	CAATGGGGTT	CATCTCTGGT	GTGTATGGAG	GAATAAATGC	AAAGCCAATA	7920
TTAGTCGGAA	TCTTTAAGGT	ACTTGATTTA	TGCCATATAG	CATTGTCCAT	AACGAGTAAA	7980
AGATAATCAT	CTGGATAAGC	TTGTGAAATC	TCCTATTCCT	AAAGCCCCTT	TAGCGCATAA	8040
CTTTGGCTCA	GCTTCTATTA	TCGCTCACAC	CATCCATCAG	AAGTTTAATC	TGAAGGTACC	8100
CAATTATCGC	CAAGAAGAAG	ATTGGGCTAG	GATGGGTTTA	CCAATCACAC	GTAAGGAAAT	8160
CTCTAATTGG	CATATCAAGG	CGAGTCAATA	CTATTTGGAG	CCCCTTTATA	ACCTCTTGCG	8220
AGAGAGACTA	TTGACTCAGC	CCTTACTTCA	TGCGGATGAA	ACTTCTTATA	GGGTGCTAGA	8280
GAGTGATAGT	CAGCTGACTT	ACTATTGGAC	TTTTTTGTCA	GGTAAAGCAG	AGAAACAAGG	8340
GATTACGCTT	TACCACCATG	ATCAGTGTCG	AAGTGGTTCA	GTAGTACAAG	AATTCCTAGG	8400
AGATTATTCT	GGCTATGTGC	ATTGTGATAT	TTTGCGGCAG	TAACTTAGGA	CTTTAGTCCT	8460
CTAGTTCTGC	CTATGCGATA	GCAGTCCAAG	GTTTAGGAGC	AAGGCGACGC	TAAGCTTGGT	8520
AAACTTCGAA	CCGCTCGTCT	GCTTATCGTC	AACTGGAAGA	AGCTGAACTT	GTTGGATGTT	8580
GGGCGCATGT	GAGAAGGAAG	TTTTTTGAAG	CGCCCCCCA	AGCAAGCGGA	TAAATCATCC	8640
TTAGGAGCTA	AAGGTTTAGC	TTATTGTGAT	CAGTTATTTT	CCTTGGAAAG	AGACTGGGAG	8700
GCTTTGCCAG	CTGATGAACG	ACTACAGAAA	CGTCAAGAAC	ATCTCCAGCC	CTTAATGGAA	8760
GACTTCTTTG	CTTAGTGCCG	GCGTCAGTCA	GTTTTAGCAG	GTTCAAAACT	AGGAAGGGCA	8820
ATTGAATACA	GCCTCAAGTA	TGAAGAAACC	TTTAAGACCA	TTTTGAAAGA	CGGACATCTG	8880
GTCCTTTCCA	ATAATCTAGC	TGAACGCGCC	ATTAAATCAT	TGGTTATGGG	ACGGAGTAAA	8940
AGAGTCCAGT	GGACTCTTTT	AGCCTAAGCT	CAGTTTAAAA	AAGCGAGGGT	GGTTATTTTC	9000
TCAAAGTTTT	GAAGGAGCTA	AAGCAAGAGC	TATTATTATG	AGTTTGTTGG	AAACAGCTAA	9060
ACGTCATCAA	TTAAATAGCG	AGAAATATCT	ATCCTATCTT	CTAGAATGTC	TTCCAAACGA	9120
GGAAACTCTC	GTAAACAAAG	AGGTTTTAGA	GGCTTATTTA	CCATGGACTA	AAGTTGTACA	9180
AGAAAAGTGC	AAATAAGAAA	TCTCCAGATT	AGGAACTATC	CGTGAGTTCT	CCAGTCTGGA	9240
GATTTTTCAA	TAGACTTCCT	GCGAAACAAA	ATATGGTATA	ATAGTTCTAT	GAATGATGAA	9300
GCAAGTAAAC	AACTAACCGA	TGCACGATTT	AAGCGTCTTG	TTGGTGTTCA	ACGCACGACT	9360
TTTGAAGAGA	TGTTAGCTGT	ATTAAAAACA	GCTTATCAAC	TTAAACACGC	AAAAGGTGGA	9420
CGAAAACCTA	AATTAAGTCT	AGAAGACCTT	CTTATGGCCA	CTCTTCAATA	TGTGCGAGAA	9480

TATCGAACTT	ATGAACAAAT	TGCGGCTGTT	TTTGGTATTC	ACGAAAGCAA	CTTAATCCGT	9540
CGGAGCCAAT	GGGTTGAAGT	AACTCTTGTT	CAAAGTGGTG	TTACGATTTC	AAGAACTCCT	9600
CTCAGTTCTG	AGGACACGGT	AATGATTGAT	GCGACGGAAG	ТАААААТСАА	TCGCCCTAAA	9660
AAAAGAATTA	GCGAATTATT	CTGGTAAAAA	GAAATTTCAC	GCTATGAAGG	CTCAAGCGAT	9720
TGTCACAAGT	CAAGGGAGAA	TTGTTTCTTT	GGATATCACT	GTGAACTATT	GTCATGATAT	9780
GAAGTTGTTC	AAAATGAGTC	GCAGAAATAT	CAGACAAGCT	GGTAAAATCT	TGGCTGACAG	9840
TGGTTATCAA	GGGCTCATGA	AGATATATCC	TCAAGCACAA	ACTTCACGTA	AATCCAGCAA	9900
ACTCAAACCG	CTAACAATTG	AAGATAAAGT	СТАТААССАТ	GCGCTATCTA	AGGAGAGAAG	9960
CAAGGTTGAG	AACATCTTTG	CCAAAGTAAA	AACGTTTAAA	ATGATTTCAA	CAACCTATCG	10020
AAATCATCTA	AACGCTTCGG	ATTACGAATG	AATTTGATTG	CTGGTATTAT	CAATCATGAA	10080
CTAGGATTCT	AGTTTTGCAG	GAAGTCTATT	АТСАААААТА	CCATCAAGAT	TATATAAGAT	10140
TGATACAGGA	AAAGTTTTAT	TTGATGGTGT	AAATATTAAT	CAAATAGATA	AAAAAATATT	10200
AAGTCAAAAT	TTAGGAGTAG	TTCCACAGGA	TTCATTTTTA	TTGAACCGAA	GTATTCTTGA	10260
TAATATAACT	TTAAAGCACG	AAGTTACTTC	ACAAAAGATA	GAGGAAGTTT	GTAAAGCAGT	10320
TCAAATCTAT	GATGAAATCA	TGGCTATGCC	GATGAAATTT	AATACTATCA	TCTCAGAGAT	10380
GGGGTCAAAT	ATTTCAGGTG	GGCAAAGGCA	ACGGATAGCA	CTGGCACGTG	CATTAATAAA	10440
TAATCCTAGT	ATTGTAATTT	TAGATGAAGC	AACTAGTGCA	TTAGACACTA	TTAATGAGGA	10500
AAGAATAACA	AAGTATATAC	AAAGTCAGGG	CTGTACTCAA	ATAATTGTAG	CTCATAGATT	10560
GTCAACGATT	AAGGATGCGG	ATGTTATTTT	TGTAATGAAA	GGTGGTAAGA	TTGTTGAGTC	10620
AGGAAATCAT	AAGTACTTAA	TGGATCTTGG	TGGAGAGTAC	TACAGCTTAT	ATACAAAAAG	10680
GAAATGAGGT	GTAAAGAAAA	TGAAGAAAGA	AAATGAATAT	GTAATTTTAA	CAACAGCCTC	10740
ACTAGGGGTG	ATGATTGGAA	TAGTGTTTGC	AATTTTTTTA	GATTTTCCAG	TTGAATATGG	10800
ТАТТТСТТТА	GGCTTGTTGA	ATGGAATAGT	ATTGGGTTCG	CTGATTGTTT	ACAAAAACAA	10860
TAAGAATTAA	GCATAATTTT	TTGCTGTAAA	CTAAGGAGTA	GAGATGGCTA	TAGTTGAAAT	10920
ТАТАААТСТА	ACAAAAAGCT	TTAAAGATAT	TGAAGTTATT	CATAACACTT	AAATAATAGA	10980
GCAACTACAG	TAGTAGCTTA	AAAACATGAT	TAAATCGCTA	TTCTTAGGAG	TAGCGGTTTT	11040
TCTTTTTGTT	TAATACTCTT	TGAAAATCTC	TTCAAACCAC	GTCAGCTTTG	CTTTACCGTA	11100
CTCAAGTACA	GCCTGCGGCT	CGCTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATAAAA	11160
AGGGTCAAGT	AAGTATAGTA	AATTGAAATA	AGATATGAAC	AAATCGATTA	GAAAAGTCAA	11220

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			240			
ATTAATTTCT	AGAAATATGT	TAGAAATTGG	TTTGAATTCC	GCAATCAATT	TGTTCAGTTT	11280
TTATTTCATT	TCATTTTATT	TAATTAGATT	TTCCAATTTT	TTAATTCAAG	CTAAAAATCC	11340
CCAATCGTAG	TGATTGAGGA	TTGAGTAAAT	AAATCTTAAA	CAATACCTTG	TGCAATCATG	11400
GCATTTGCTA	CATTTTCAAA	GGCAGCAATG	TTAGCTCCTG	CAAGGTAGTC	TTTATCAAGA	11460
CCGTATGTTT	CTGAAGTCGT	TTTAGCTGTG	TTGAAGATGT	TTGTCATGAT	GTCTTTGAGA	11520
CGGCCATCAA	CTTCTTCACG	AGTCCATGAG	AGGCGAAGAC	TGTTTTGGCT	CATTTCAAGA	11580
GCTGAAACGG	CTACACCACC	AGCGTTGGCA	GCTTTTGCAG	GTCCGTAGAA	GATACCATTT	11640
TCTTTGTAAA	CTTTGATGGC	ATCAAGGTCG	CTCGGCATGT	TGGCACCTTC	AGATACACAG	11700
ATAACGCCTT	GAGCAACCAA	ACGTTTAGCT	GCTTCACCGT	TGATTTCGTT	TTGAGTGGCA	11760
CATGGAAGAG	CAATGTCATA	GTTTCCAGCG	TAAGTCCATA	CAGTACCTTC	GTGGTAGGTT	11820
GCAGTTGCTT	TTTCAGCTGC	ATACTCAGTC	AAACGAGCAC	GACGTTTTTC	TTTAACATCA	11880
ACCAAAAGAT	CGAAGTCGAT	ACCATTTTCA	TCGATGACAT	AACCATTTGA	GTCAGAAACA	11940
GAAATAACAG	TTGCACCGAG	TTCAGTTGCT	TTTTGAAGAG	CATATTGAGC	AACGTTACCA	12000
GAACCTGAAA	TAACGACTTT	CTTACCAGCA	AAGCTGTTAC	CGTTAGCTTT	GAGCATTTCT	12060
TCAGTATAGT	AAACCAAACC	GTAACCAGTT	GCTTCTGGAC	GAATCAAGCT	ACCACCAAAT	12120
CCAAGAGGTT	TACCAGTCAA	GACACCAGCA	TCAAATTGGT	TAAGACGTTT	GTATTGACCG	12180
TAAAGGTAAC	CAATTTCACG	TCCACCAACA	CCGATATCAC	CAGCAGGTAC	GTCAAGTGAT	12240
GGTCCGATGT	GTTTTTGCAA	TTCAGTCATG	AAGCTTTGGC	AGAAGCGCAT	CACTTCAGCA	12300
TCTGTTTTAC	CTTTAGGATC	GAAGTCTGAT	CCACCTTTAC	CTCCACCGAT	AGGAAGTCCA	12360
GTCAAGACAT	TTTTAAAGAT	TTGTTCAAAT	CCGAGGAATT	TCAAGATCCC	TTGGTTTACA	12420
GTTGGGTGGA	AACGAAGTCC	ACCTTTGTAT	GGTCCAACAG	CTGAGTTGAA	TTGAACACGG	12480
TAACCACGGT	TTACTTGAAT	TTTTCCATCA	CGGTCAACCC	AAGGAACACG	GAAAGAAACC	12540
ACGCGCTCAG	GCTCAGTAAT	ACGTGCCAAG	ATATTTTCTT	CGATATACTC	AGGGTGTTTT	12600
TCAAATACAG	GTTCTAAAGT	GTTGAAAAAT	TCTTCAACAG	CTTGGAGGAA	TTCAGCCTCG	12660
TGCCGG						12666

# (2) INFORMATION FOR SEQ ID NO: 138:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 3083 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

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#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138: AGCAACTGTT GTGAACCAAT TCCGATAAAT TCCAAGAATT GGTTAATAGA GCCATTTTGA 60 CCAAAAATCC CGATAAAAGC ATAGGCTTTA AGGAGCAAAT TGATCCAGGT AGGAAGGATA 120 ATCAGCATGA GCCAGAGTTG ACGGTGTTTG AGACGGGTCA AAAAGAGGGC CGTCGGATAA 180 CTGATAAGCA GTGCCACAAA GGTCACAATG CCTGCATAAA GCACTGAGTT GAAACTCATT 240 TTAAGATAGG TCAAGTTTTG TGACGCAAAG TAAGATTTGT AATTTTCTAA ACTGAACTGG 300 CCTTCGATGT TGAAAAAGGA TTGACCGAAA ATCAAGACCA AGGGTGCCAA TACAAAGAGC 360 GCAATCCAAA GCATGTAGGG TACTACAAAG AGTTTAGAGC TTGTTTTCTT CATCTCTTTC 420 CTCCTCGATT GCATTGATCA AACCTGCTTC TTGCTCTTCG ATTTCTACGT ACTCCTCAAT 480 ACGAGCATCG AACTCTTCTT CGGTTTCATT GAGACGCATG ATGTGGATGT CTTCTGGTTC 540 AAAGTCCAGA CCGATTTCCT CACCCACGAT AGCCTTACGG GTTGAGTGGA TCATCCATTC 600 ATTTCCAAGT TCGTCATAGG CGATAATTTC ATAATGAACT CCACGGAAAA GCTGGGTATC 660 GACCTTAACT TGGAGCTTGC CTTCTTCAGG AAGGGTAATG CGCAAGTCCT CTGGACGAAT 720 AACGACCTCA ACAGGTTCAT TTGGCTTCAT CCCACCATCA ACCGCTTCAA AGCGTTTGCC 780 GTTAAATTCG ACCAAGTAGT CCTCAATCAT GGTACCTGGC AAGATGTTTG ACTCCCCGAT AAAGGTGGCA ACAAAGTGGT TGATTGGCTC ATCGTAGATG TCCACAGGGG TTCCAGACTG 900 GACAATCTCG CCATCATTCA TAACGAAAAT CCAGTCACTC ATGGCAAGAG CTTCTTCCTG 960 ATCGTGAGTG ACAAAGACAA AGGTAATGCC CAATCGTTGT TGTAATTCAC GCAATTCGTA 1020 CTGCATGTCT GTTCTCAATT TCAAGTCCAG CGCTGATAAA GGCTCGTCCA ACAAGACCAC 1080 ACGGGGTTGG TTGATGATAG CACGGGCGAT GGCCACACGC TGACGTTGTC CTCCAGAAAG 1140 TTTGCGGATG GAACGTTTTT CATAACCTTC CAACTGAACC ATCTTGAGAA CTTCCGCTAC 1200 ACGCTGCTCG ATTTCTTTCT TATCAATTTT ACGCAAGCGA AGTGGAAAGG CAACATTTTC 1260 AAACACATTC ATATGTGGGA ACAAGGCATA GGATTGGAAG ACGGTATGTA CGTCGCGCTT 1320 GTTGGTTGGA ATATCATTGA TACGAACACC GTCTAGCATG ATATCTCCTG TCGTCGCATC 1380 CAGTAAACCT GCAATAATGT TTAGGATAGT TGATTTCCCC GAACCAGATG CACCTAGAAG 1440 GGTGTAGAAT TTCCCTTCTT CCAACTCAAA GTTGATGTCT TTGAGAACCT TGGTGTTGCT 1500 GTCTTCAAAA ACTTTAGAGA CGTTTTTGAA TTCGATAATT GGCTTTTTCA ATTGGCATAA 1560 ATTCCTTCTT TTTCATAGAT TAACCGATCG GGGCTCTGTC AGGTCCCCAC TACCTCTTGC 1620

AGGGAGTAAA ACCACCTGCA TACATCTTCG CTACCGATAG GCTTTCACCC AAGATCCGGA

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CTTCTCTTTC	AAGCGTAATA	CCTGAGTGTT	930 CCTTGACTTT	TTCGATAACC	GATTGGATCA	1740
AGTCCTCGTA	GTCTTTGGCC	GTTCCATCTG	CGACATTGAT	CATAAATCCT	GCATGCTTTT	1800
CTGACACTTC	TACGCCACCG	ATACGATAGC	CTTTCAAGCC	AGCTTCTGAA	ATTAACTGAC	1860
CTGCAAAATG	CCCGACTGGA	CGCTTAAAGA	CCGAGCCACA	AGATGGGTAT	TCCAAAGGTT	1920
GCTTGAGTTC	ACGTAGGTGC	GTCAAGCGGT	CCATTTCCTG	CTTGATAACC	TGATGGGTTC	1980
CTGGAGCTAG	GGCAAATTTA	ACTGACAAGA	CAACTGCACC	AGACTCCTGA	ATAGCTGAAT	2040
GACGGTAACC	AAAAGCCAAG	TCTTTAGCAG	ACAGGGTTTC	GATTTCTCCA	TCCTTGGTCA	2100
AGACCTTACA	AGACTGCAAG	ATGTGAGCAA	TCTCGCCACC	ATAGGCACCC	GCATTCATAA	2160
AGACAGCACC	GCCAACGCTT	CCTGGAATAC	CACAAGCAAA	CTCAAAGCCA	GTTAAACTAT	2220
GACGGAGGGC	AATGCGAGTT	GTTTCAATCA	AGTTAGCCCC	AGCTTCTGCT	TCAATGGTAT	2280
AGCCATCAAC	AGAAACGTTA	TTGAGCTTGT	CACACAAGAT	GACAAATCCA	CGAATCCCAC	2340
CATCACGAAC	GATGATATTG	CTTGCATTGC	CAAGAACCAT	CCAAGGGATA	TTTTCTTGGT	2400
TGGCAAATTT	CACAACGCGA	GCCAACTCAA	AACGATTTCG	TGGAAAGACC	AAATAATCAG	2460
CCTCTCCACC	TACTTTTGTA	TAACTATAGC	TATGCAAGGG	TTCCTTAAAA	CGGATATCAA	2520
TTCCTTCTAA	GATTTCAAGC	ATTTTTTCTC	TTACAGACAT	GTCACTCTTC	CTTTTACAAA	2580
ATTCATTCCA	TTATACCATT	TTTAGAGACA	TTTGACGACC	ATAAAAATAC	CTTGTTTGGA	2640
TTTTGCATAA	GAAAAAGAGG	TTCCCCCCTT	TTTATGATTT	TTTACAAAAG	ATTTCCTTGG	2700
TTCCATAGGC	GACCAGAACG	AGCTCCAGTG	CTAGAATCAC	TTCAACCAAG	ACTGGATTTG	2760
TCAACCAGCC	TACTTGGAAA	AGAGATGGTG	CCAGATCAAA	GAAGGCATGC	AAGCCATAGG	2820
CTGCTAGGAG	ATAAATCCAT	TTCTTCTGGC	GAACAGCTTG	GTAAACCCAA	ACTGTCAAAA	2880
GTAATTGGAA	ACCAAGCGCC	AAGATTCGCT	CAAAACCAAG	CAAATAAATC	TGCCAGACCG	2940
AAAGTGACTG	AATGGTTTTT	AACATATTTT	CAGACAGTAA	TTGCATAACC	TGTGGATTCT	3000
GAGTTTGAAC	TGCCGAAAGA	ACAATGTAAA	GATTGAGTAA	ACTAGTAAGG	CCTAGAAAAA	3060
TCAACTCCAA	GCCACCATGC	ccc				3083

## (2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15363 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

CCGGAGGATA	TTGACCACCA	CCAAAAGCAG	GGGGAAAATC	GAAATCAACC	AATAGTAGGC	60
TACTGCGACA	CTGGTCAACT	CACTATCTGA	TGCTTGATAA	TAATGCAAAA	AAGCTTTTAA	120
TAAAGGTTTG	TCTATCAGCT	CTTTCCACCA	CTTTTTCATG	TCATACTCCT	TCACTTATAA	180
TCTTATACTC	AATGAAAATC	AAAGAGCAAA	CTAGAAAGCT	AGCCGCAAGC	TGCTCAAAAC	240
ACTGTTTTGA	GGTTGTAGAT	AAGACTGACG	AAGTCGATCA	CATACATACG	GTAAGGCGAC	300
GCTGACGTGG	TTTGAAGAGA	TTTTCGAAGA	GTATTAACTA	ATTTCTTCTT	ACCAATTCCA	360
CCATATCATA	CGGTAGGGTA	TTGGCAGCTT	CCTTCAAGGA	ATAGTTCTCT	AAGTTATTTA	420
CATTTTGTCG	TAATTTCTTG	GCATACTTAG	TCGTAATCAA	TCGTTTTTCT	TCGTATTCGA	480
AAATCAACTT	GCGCTCCAGA	TAATAGCCTC	TCAGCATTTC	ATCGATATTG	TTGGGTTTGA	540
CACGATTGAT	AACCCGTTCG	ACAAAGGCAC	CACTGCTGAT	AATAGCTGTT	TCTCGAAGAC	600
GAGACTCCTG	CATAAAACTA	ATCAAAGAGC	GTCTGTAGAC	TCCCTTCAGG	TTTTCCAAAC	660
TTTCAATAAT	CATCTCTGTA	TTGGCAAGAT	AGAGCTCTGC	AATTTGGTCA	TAATCAAGAG	720
CACGGAGACG	GCTTTGCTCC	TTGTTCTTCC	AGCTACGGAA	GGTCTTTCCG	AGAGTAAAAA	780
CTTCATGAAG	GAGAAAACGT	AAAATCCTCA	AGGAAACAAG	AAAATAATAG	GTCAGTCTTG	840
AGGCAAGTTT	ACGATTGATT	CCTTGTTCTA	TATTTTTCAG	ATAACGTTGG	TAAACTCGGT	900
AAGCACGATT	GCTAATGTTC	CCCTCTTCAT	AGGCCTGTTC	CAAACCATCA	CTTTCAATAC	960
TAAGAATCAA	GAGTTTCAAA	GCAGCCCAGT	CTTCTTGATC	ATCCTGGTTT	TCTTGGCTTA	1020
AAATGAGATT	TTCAATACGT	CCATGATAAT	TGTCAATAGC	CGCATAGAGG	GGAAGTTTAT	1080
TTCTGGTGTC	TTCCAACTCT	TTTTCCAACT	CTAGCGTTAC	TTCATTCAAA	ATGGCGATAT	1140
GCATAAGATA	ATCCTTGCTT	TCTTCCTCTT	CATCAGAAAG	ATGAGGCAAG	ACCAAGAGAC	1200
CTGTTAAAAA	GCTAACAAGC	GTCACACCTG	CAACAAGGAA	AAGCAAAAGA	GGATACTCCT	1260
GTTCTAGATT	ACTTGGTATC	AAGAGAATCG	TAGCAATCGA	CACCGTTCCC	TTAACACCTG	1320
AAAAGGTCAA	GAGAAACATG	TCCTTCATAT	ACTTATTTAG	CTTTTTCTTG	AGGCGTCGGG	1380
TTCTATAGGC	ATAATAGCCA	TAGATCATAA	TAAAACGAAT	GACAAAAAGG	ACAAAGGTAA	1440
GGGCGATAAG	AGATAGCAAT	AAAAGTAGAG	GATTATAGAT	TGGATTGGTC	AAGATAGGTT	1500
CTGCTATCAT	TTCCAACTCC	ATCCCTAAAA	TCACAAAGAC	AGAACCGTTG	AGCATAAAGG	1560
TCACTGTATG	CCAGACCGTC	TCGGTCACCG	TATCCACTTG	GGCTTCGAGG	AGCGTGATTT	1620
TCTTGAAGCG	ACTTGCCTTT	AAAATTCCAG	CAACTACGAC	GGCAATAATA	CCTGAAACAT	1680
GAACTTCTTC	TGCCAGAAAG	AAGGTCACTA	GAGGCAAACT	CAATTCTAAT	AAAAGTTCAC	1740

			932			
TGGCAATATC	CGTTGCGCGC	ACACTTAGCA	AGAAGGTATG	GAGGAAGCGG	TTGGTCATGG	1800
CTGTTAAAAA	TCCAATTAAA	AAACCGCCTA	GGATTGAAAA	GATGAGCGAA	CTGCTAGCTT	1860
GCCCCAGAGA	AAAAGCTCCA	GTTGTCCAAG	CTGTCAAAGC	TACCTGAAAA	GCCACCAAAC	1920
CAGAAGCATC	ATTCAAGAGT	CCTTCGCCCT	TAAGAATATT	GGACACGCGC	TTAGGAAAGC	1980
TAAAACGCTC	CGAAAGAGAG	GCAAAGGCCA	CCAAGTCCGT	AGGACCAAGG	GCTGCCCCAA	2040
CAGCCAAGCA	AGCTGCCAAG	GGAAGGCTGA	ACCAAAGAAG	ATGGGCCAAG	CCACCCAAAC	2100
TCAGGGTCGA	GATAAAAATC	ACTGGAAATA	TGAGATAAAC	AATGATTCGC	CAGTGTTTTA	2160
AAATAGCCGT	AACATCTGCT	TCTTCAGCCT	CTCGGAAAAG	CAAGGGTCCG	ATAACCAGTG	2220
CCAAAAACAA	CTCCGTATTA	AGGTGAAAGT	CAGTATTGGG	TAAAAAGAGA	CCAATCACAA	2280
TTCCCAAAAG	AATTTGCACC	AAAGGGAGAG	GCAAAAAGGG	CAGGAGCTTA	TTGGTTGTAC	2340
TTGAGACAAT	CAAAACCAGT	AAAAATAGGA	TGAGGTAAAT	CAGTAATTCC	ACGCACGTCC	2400
FCCTTAATCT	TTTTTACAAC	AGGATTCAAA	TATCTCCTTC	TGCTCTTTGA	TTTTTTGGTC	2460
AATCTTGGAA	CAGTCTTTGT	GCTCAATTTT	TCTCTGGCAC	CGTTCCATTT	CAAGAGCAAC	2520
FAATTTTTTC	TTGATTTTAA	GCATTTTTTT	GCTCATATGC	GCTTGGTCTA	GCACGCCCAT	2580
CGCTCGTTCG	TGGTGGGTTG	ATTCAACAAA	ATTCTGGCGC	ATGGCATCCA	GCTTTTCGTG	2640
PAAGTATTGT	TTATCCATGT	CTGTATCTCT	CTAATTTTTC	AATCATCACT	AAAAACGGCG	2700
GGTTGTTGAC	TTGGTTTAAA	GTTCGGTAAA	TGGCAGCTGT	GTACTCTTGT	TGGTTCAACT	2760
GGATCACAAA	ATCCAAGACA	GCATCTCTCT	CGAGATCGCC	TCCTTCATGA	CCATAGTAAA	2820
PCATAATAGC	AATTCGTCCA	CCTTTGACAA	GTAAGCCACA	TAGCTTTTCT	AATGCCTCAA	2880
rcgttgtctg	CGGTCGGGTG	ATGACAGACT	TATCAGCTGC	CGGCAAATAG	CCCAGATTAA	2940
AAATCCCTGC	CTTAGCTTTT	ATCACAAACT	GGTCCAGTGT	CTCATGGCCT	TGCAAGATTA	3000
ACTGGGCATT	TGTCAAGTCA	GCCTGATGCA	AACGCTCTTG	GGTCTTTTCC	AAGGCTTGCT	3060
TCTGAATATC	AAAGGCATAG	ACTTGCTTGG	CTAGCTTGGC	TAAAAAAAGC	GTGTCATGAC	3120
CATTTCCCAT	AGTCGCATCC	ACTACGACAT	CCTCTTTTGT	CACGACCTCA	GCCAAAAAAT	3180
CATGTGCCAT	CTCAAGTGGT	CTTTTCATTT	TCAAACTCCT	GTTTTACAGC	CTTGCATCCT	3240
TGAACACTTC	CACGACGTCG	CATCTCCATC	TCAATGCTGT	TGAGGACTTC	CCATTTATTG	3300
AGGCTCCACA	TAGGACCAAG	CAGCATATCC	CTAGGCGCAT	CTCCTGTAAT	TCGATGGATG	3360
ACGATATGTT	TGGGAATAAT	TTCCAGTTGG	TCACAGATGA	CCCTGACATA	TTCGTCCTGA	3420
CTCATCAATT	GTAAACGCCC	CTCATGGTAA	TCTCGTTGCA	TACGAGTATT	TGTCATAAGA	3480
GGAGCAAAT	GCAGTTTAAT	CCCTTGAATA	TCGTTATCCG	TGACACAACG	GCGGACATTT	3540

TCAACCATCA	TCTCATGGGT	TTCACCAGGC	AAACCATTGA	TCAAATGGGA	AACAATCTCA	3600
ATTTTTGGAT	ACTTTCTCAA	ACGCTTGACC	GTTTCCACCT	ACAATTCATA	AGAATGCGCA	3660
CGGTTAATCA	GGTCAGAGGT	TGCTTCATAA	GTAGTTTGCA	AGCCCAATTC	AACCGTCACA	3720
TGCATGCACT	CCGATAACTC	AGCCAAATAT	TCGATGGTTT	CGTCTGGTAA	ACAGTCTGGG	3780
CGCGTTCCAA	TATTGATTCC	TACCACACCT	GGCTCATTGA	TAGCCTGTTC	ATAACGCTCT	3840
CGAATAACTT	CCACCTTTTC	ATGGGTGTTG	GTAAAATTTT	GAAAATAAAC	CAGATACTTC	3900
CGAACATCCG	GCCACTTGCG	GTGCATAAAG	TCAATTTCCT	TATAAAATTG	CTCACGGATA	3960
GGCGCATCCG	GTGCCACAAT	GGCATCTCCA	GAACCAGAAA	CCGTACAAAA	AGTACAGCCC	4020
CCATGAGCCA	CAGTCCCATC	ACGATTGGGA	CAATCAAATC	CCGCATCAAT	AGGGACTTTA	4080
AAAGTCTTTT	CTCCAAAGAG	TTTTCGATAA	TAATCATTCA	AGGTATTATA	AGATTTCATG	4140
ACTTTCATTA	TAACAAAAAT	CACCCACAAT	CTCAAAAGCC	TGACTTTCCT	ATAAATTCCT	4200
CTGTTTCTCG	TTTCCATTAG	CCTTTTTTTA	TGATACAATA	TGGGTATGAT	TTTAATGAAA	4260
TTAGCATCTA	TTTTATTATT	GATACTGACC	TTAGTCGTCT	GCATTATCCT	AACCAAACTT	4320
TTTAGATTAA	AAAAACTAGG	ACGAAACTTT	GCGGATTTGG	CTTTTCCAGT	CTTGGTATTT	4380
GAGTATTACT	TGATTACAGC	TAAAACCTTT	ACCCATAATT	TCCTCCCTAG	ACTGGGGCTA	4440
GCCCTCTCGA	TCCTAGCCAT	TATTCTCGTC	TTTTTCTTCC	TTTTGAAAAA	ACGCAGCTTT	4500
TACTACCCTA	AATTTATCAA	ATTCTTCTGG	CGTGCAGGAT	TCTTATTAAC	CCTTATCATG	4560
TATATAGAAA	TGATTGTTGA	ATTGTTCTTA	ATGAAATAGT	CGAATCCCTA	AGCATTTTCT	4620
AGGGATTTTT	GCTTTCTCTA	CAAAATAGTA	TAGACAATAA	CACTATACAA	TTTTATACAA	4680
AGAAAAGAGT	CTGGGACAAT	AGTCTCTTAT	ATCCAAAAAG	GCAACGGATT	TGCCGTTGCT	4740
TTTTTGGATG	GTTACGATAG	TCTTGGTAAA	ATAGAATTGC	CCAATAAACC	ATTTAGAAAG	4800
GCTATCCCAT	GCATATTCAC	TATAACACAA	ATCAAACAAC	TTTACCACTA	GAAATCAGTT	4860
CCTTCTTACC	ACAAGATCAT	CTCGTTTTTA	CTATTGAAAA	AGTGGTGAAT	ACCTTGGAGG	4920
AACGTCACTT	CTACACCTCC	TATCATGCCT	TTGATCGCCC	GTCTTATCAC	CCTAAAATGC	4980
TTGTATCTAC	TCTTCTATTT	GCCTATTCAC	AAGGGATTTT	CTCTGGTCGA	AAAATTGAAA	5040
AATGGAAGAG	TTAGTGACCT	TAGATTGTTT	GTTTATTGAC	AGAACTAAGA	TTGAAGCCAA	5100
TGCCAACAAG	TATAGTTTTG	TGTGGAAGAA	AACGACAGAG	AAATTCTCCG	CCAAACTTCA	5160
AGAACAGATA	CAGGTCTATT	TTCAAGAAGA	AATCACTCCC	CTTCTGATTA	AATATGCCAT	5220
GTTTGATAAG	AAACAAAAGA	GAGGGTATAA	AGAGTCAGCT	AAAAACTTAG	CGAATTGGCA	5280

934 CTATAATGAC AAGGAGGATA GCTACACACA TCCTGATGGC TGGTATTATC GTTTTCACCA 5340 TACCAAATAT CAGAAAACAC AGACAGACTT TCAACAAGAA ATCAAGGTTT ACTACGCCGA 5400 CGAACCTGAA TCAGCCCCTC AAAAGGGACT GTATATGAAC GAACGCTATC AAAACTTGAA 5460 AGCTAAAGAA TGTCAGGCGC TTTTATCTCC CCAAGGTAGA CAGATTTTCG CTCAACGCAA 5520 GATTGATGTG GAACCTGTCT TTGGGCAGAT AAAGGCTTCT TTGGGTTACA AGAGATGTAA 5580 TCTGAGAGGG AAGCGTCAAG TGAGAATTGA CATGGGATTG GTACTTATGG CCAATAACCT 5640 CCTAAAATAT AGTAAAATGA AATAAGAACA GGACAAATCG ATAAGGACAA TCAAATCGAT 5700 TTCTAACAAT GTTTTAGAAG TAAAAGTGTA CTATTCTAGT TTCAATCTAC TATACAATAA 5760 GAGAATGACT CAAAATTAAA AAGCTAGAGT TCCACAATTG GAAATATCTA GCTTTTTTGT 5820 GGTTGAGAAC TATTTTGTCT CAGGCTCTTT ATCTTCTATT TAGGACAAGA GTTTTTCTTT 5880 GGTCTTTAAT GATAAAGAAG GTATCAAAAT TTCTAGTCTT CTTTTTTTACC TTTAGTAACT 5940 ACTAATCCTG CACTCAAACC TAGAAGAGTT AAACCTGCTG CTACTGCTGC TTGGCTTGCC 6000 GCACTACCTG TACTTGGTAA CTGGGCTTTA TTAGTTTGAC TAGCTTCACT TGAATCAATT 6060 GGTTTTGTAT CTGCTTTTTC TGACACTTGT GGTTTTTTAG CTTCTTGAGC TACTGGTTTG 6120 GTTCCAACCA AGACGATGCG GTCTGTCGGA ACTTCTACCA CTTCACGGAG TTTTTCTTCC 6180 TTACTTCCAT CAGGATTAAT CGCTGTAAAG ATACGTTCTT TTCCAACTTT TCCTTCTTGT 6240 TCTACACGAG TTTCACCTAG ATACAGTGTT GAATCTTTTT TCTCAACTGT CTTGTATGCC 6300 AAATCTTTTT CAACAAATTC GATTTTTGGA AGATCTTCTT GTACAGCAGC AACTGTCTTC 6360 TCAGAAACTG GTTTTTCCTT AGTCAAGTGG ATACGGTATT CCTTGACTTG TTTTCCACTT 6420 TCTGAAACGA GGCGAACAAG TACTGGAAAG CTATCTTCTC CACTATCTAC CACAGTTGAA 6480 GCTACTTGAT TGTTTTCTTC AACTGAGACT TTTGGCCGTT GACCTTTATA GGTAATTTGA 6540 TAGTCTTGAC GATTTTCAGC GAAATCAGCA AGTTCTTTTC CATCTACAAG AATCTTTGAT 6600 TGAGTGCTTT CTTGAGGCAA TTCACTTGGT GCAAGGAAGG TCATCTCAAT CATCGCAACA 6660 CCGCTCTTAT CTGCTTTACG CTCCATACGC CATCTCATAG CTTTGGCTTT GATAGCTTTA 6720 AATGTTACGT TGATTTCATC ACCAGCTGCA ATGTCTTTAT CCGCACGATA AGGAACAGCT 6780 TCCCAATTTT CTGGATTGTT GAATGGATGG TCTGCGTCGT AGGCTTGGTA GTTTGAATAG 6840 TAGGTTGGCA CTTCAAACTC TGGACCGACA TAGCGTTCTA AAACGAGTTT AGATGGTGCA 6900 TCCGTACCAC TATCTGCAAA GAACTGAACT TTTCCTTGTG TAACAGTCCG TTCTACAATC 6960 TTACCATTTT CACGGAAAAT CACACCCGCT GATACTTCTG GATTAGAAGA TGGTGTTGGT 7020 GACCAGTTTG TCCAACGACG ATTTTCTGAA TGATCTCCGT CATTGAGATA GTCAACGCGG 7080

TCATGAGAGT	TTTTGTCAAT	ATCATTGGTT	GCTGAAGCAA	AGGCCTGGTT	ACTGTTTTCA	7140
TCATAGTTAG	GGTTATCTGA	AAGAGTCTCA	CCAAGTTTGT	CTGTCACTCG	TACAGTGATC	7200
TCAGCAACAA	GGTTACTACC	AAGGACACGG	CCTCGAACAG	TAAATTGACC	TGCTTTTGTC	7260
AGATTTTCCG	CTGGAACTTC	TTCCCATTCA	ACTGTCAGGT	CTTTTGTTTC	GTAGCCGTCT	7320
TTACCTGTGA	AGTAAACTGG	AACCTTAGTC	GGCAATTCAA	GTGCTTGACC	TACTTGTAGC	7380
AAGCGAGCTT	GTTTAACCGC	AGCAACTGGT	TTATGAGAAA	GTAAGCTCTT	ATCCTTAGTG	7440
AAGTGCAGAC	GGTATTCTCC	TAAGATGTCG	CCATTTTCAG	CTTTCGCGAT	GACACGAACT	7500
GGCTCACCTT	CACGAACGCT	TGGAACGACG	GTAGCGAGAC	CATTGTTGCT	AACACTTGCT	7560
GTGACTGCCG	GAACTTTTCC	ATCTACAGAC	TCAAGGTAGT	AGTCTGTCAA	ATCAGGGTTG	7620
AAGTTTGCTA	AGTCTTTGCC	GTCAACTTGG	ATTCTTGTTT	GTCCTTGCTT	GGCTGCCGCA	7680
ACTTGTTTCG	CAAAGATTTG	TACCTCTGTG	ATAGACGTTC	CACGCTTGTT	ATCTGCTTTA	7740
ACCATGCGAA	TACGAACAGC	ATAGGTTTCA	ACTTTATCAA	AGCTAAAGTG	GTTCATTTCT	7800
CCAGCCTTGA	GTTGAGCAGG	GGCTTTTAGA	TTAGTAACTG	GTTTCCAGTT	GGCAGAATCA	7860
TTAAAGACAT	GGTCCTCATT	ACCAACAAAA	CTAGGGTTTT	TAGGAGCTGT	TGGGACAGTC	7920
TTACCAACAT	AATACTCAAT	CACATAAGAC	TTCGGTACAC	CAACTCCATG	GTCTTCATGG	7980
AATCCGACAC	TTAGATTATC	AACGGAGCGT	TTGCTCAAGA	TACCTGAATC	TCCAAACAGA	8040
ACACCGACTG	AAGCTTCTGG	ATTAGTACGA	TTCCAGTTTG	TCCAACGATT	GGCTGGTTGG	8100
TTATTGTAGG	AAATGAGCTT	GTCATTAACA	TTTGAAACTG	GGTCGCTTGG	ATTTGAGTCT	8160
GAAGCAAAGG	CAAGTGGCAA	TTCTGAACCG	GTCCATTGGT	CAGAAATGTT	TGCACCTTGC	8220
TCAGTTTGAG	CAGATACGCG	AACATGAAGT	TTAGTTGTTA	ATTGCGTACC	TTCTAAGCGA	8280
CCATTAACTG	TAAAGACACC	TTCCTTAGCG	TATTGCTCTG	GACGAATCGC	ATCCCATGCA	8340
ACCTTAGCTG	ATGAAACGTG	ACCATTTGAA	TCATATGTCC	GAACACTTTC	TGGTAATTGT	8400
GGTGCTTCTG	CGATTGGAGT	TGTCACACTG	ACTTCTTCAA	CTGAAACGAT	ACCTTCTACA	8460
GAGACTTTTG	CACGCGCTTC	AAGGTCAATT	CCTTCAACTT	TACCTAGTAC	TTCAAATGTT	8520
TGATAGGAGT	CTAGTTTTTC	TTTCGGAATA	GCTTGCCAAG	TGACTTTATG	AGTTTTAGGG	8580
AAACCTTTGT	CATACTCAAC	TGTTACTGTT	GCTGGAAGAC	TTGGTTCCTG	ATGCAAATCT	8640
GTCACTACAT	TTACAGGACG	GATGGATTGC	GCAATCTTCT	TCTCAGTATT	GGCTTGGATA	8700
GTGAGTTCAA	CTTGGTCTTT	AGCTCCCTCA	TATTCAGCGT	TCAGAGTGAC	TGCTCCTGGC	8760
TTATGCAACT	CAAGCATTCC	TTTACGAATT	GCGACTTCCC	CTTCACCACT	TGTAGAGAAG	8820

			936			
GTTACTTTAT	CAGCTGGTAA	TACAGCTTGC		GATAGTGAGC	TCGAACCGAC	8880
AATTTGACAG	TTTGGTCTTC	TTTGAGACTG	TCAGCTTTTT	CCACTTGCAA	GCTCAAGTGA	8940
GCAATTTTTG	GCGCTTCTTC	AAGGAATTGA	ATTGCATAGG	TTTGAAGAGG	GCCACCATCT	9000
TTAGGCTGAA	TAAAGATGCT	CGCACGCATG	CCGTTTGCTG	CGCTTGCTTG	AAGAACTGTA	9060
ACAGCTGCAT	TTTTAGCACT	TGCTGTGACT	TCTGGCAACT	TAGCTCCATA	AGCAAGAGTG	9120
CGGTATTGCA	TTGGTTTTTG	ACTAGTAAGA	CCTGTTACTG	CCTCACCACC	AACCGTTACA	9180
GTTGGTACTG	CAGGTGCCGC	AGGATTGCCT	TCTTCTACCA	CAAGGGTTGC	ATGAATTGGT	9240
TGACCTTCTA	AATAACCGGT	CGCTTGAATA	CGAGAACCTG	GAATTGCTAA	CTTAGCTTTA	9300
TCTTCTTCGG	CAATCTCCCA	CTTGTCCACT	TCATACTCTT	CAACACTTCC	ATCAATCAAA	9360
ACATAGGAAA	CAGATTTGTC	TACAGAATTC	AAGTCAGTAT	TTGGAGCAAT	ACGTTTCACA	9420
ACTGGTAGCT	CTGATTTAAG	AGCAATCACT	TCTACACGAG	CTTCTACTTC	TCGTCCGTCA	9480
GCCATACCTT	TCACCGTTAC	AATACCAGGC	TTGCTCACAT	CTACTGAAGA	CCAGGTTACA	9540
GGACGTTCTG	CACGGCTACC	ATCACTGTAT	ACAAACGGAA	CAGTGGTAGG	CATTTCAGGT	9600
GCCTCTCCAA	TAATGGTCTG	TACTTTTGGC	ACTTCTGTCC	CCAAAACAGT	CTTCTCTTGT	9660
CCTTCTTTCT	TACCAGTAAA	GACAGTGACT	TGGTTCGATT	TCAAGAGATC	AGAGTGGGCA	9720
GTCAGGGTGA	ATTTCCCTGC	TTGTTCAGTT	GATTTGACAA	TGGCAACACC	TTTACCATTA	9780
AATGCTTTAC	GAATCCAAGA	ACCATCTGCT	TGCGCCTTAT	AGCGTTCACG	GCTGGCTTGT	9840
TCTCCGTTAT	CTACACCGAC	CAGTTGACCT	TGGCCATGCA	ATTGGAAGCG	AACCAGATTA	9900
TTAGCAGTTG	GAACCACATT	CCCCTGGCTG	TCAACAATTT	CATAGTAGAT	GTAAGTCAAG	9960
TCTTTTCCAT	CTGCTGCAAT	CGCATGGTCT	TCCTTAATAA	GACGAACTGC	CGCTGGCTTA	10020
CCAGCAGTCG	TAATCTTATC	TCGAGCAATT	TCCTTGCCAG	ATTCATCACG	AGCAATTGCT	10080
TCCAAGGTAC	CTGGTTGATA	GGCAACTTTC	CATTCAAGAT	AAAGTTCATT	AGCATTTGCA	10140
CCTTCTTGGT	AAGTCCGCCC	ATCGCTGGTT	TGTTTTTTAT	TGAAAGTCTT	AAGACCAAGA	10200
GATTTTCCAT	TCAAGAACAA	TTCTACACTA	GAAGCATTCG	AATAAGCACG	AACTGGAATC	10260
TTACCTTCTG	AGTCAGCTAC	TTTGGATGCT	AATTCTTTGT	TTTCCCAGTT	CCAGTGAGGA	10320
AGAAGGTGTA	CCATCGGTTT	CTTCTTAACA	GAAACCCATT	GGCTTTGGTA	GAGATAGAAG	10380
TCATGTTTTG	GAATGCCGGC	TGTATCTACG	ATACCAAAGT	AAGAGCTCTT	AACAGGAGTT	10440
TGATTTTGGT	TGTGCCATGG	TGTAGGTTCA	CCAATATAGT	CCGTACCTGT	CCAGATAAAC	10500
TGTCCAGCAT	AGCCAGCGTT	GTCACGGTCA	AAAGTCCATG	AAGCGGTTGC	TGTTTTCCCC	10560
CAACCCACAC	GATCATTTCC	ATAATCTGAC	TGTTCATAAT	TACGCTCAGG	TCCATTGCTA	10620

TGTTTCAATT	CACGTTCAGG	GCGATAGTAA	CTTCCACGTG	TACGGGTAGC	TGAAGATGTT	10680
TCTGATCCAT	AAATCAACCA	TTTTGGATGC	TTAGCTCTAA	GGGCTTTGTA	ATTATCTTCA	10740
GAATAGTTAA	ATCCAACAGC	ATCGAGTTCA	TCAGCAATTT	TCTCATGCCC	TCCGCTACCA	10800
TTACCGAAAC	GGAATTTATC	TGCTCCCATG	GTAACATAGC	GAGTCTTATC	AACATCCTTG	10860
ATAACCTTAA	CCAAACGTTT	AACAGTTGCT	AAAGAGTGGG	CATCACCATT	AGCTTCACCT	10920
ATTTCATTAC	CAATTGACCA	CATGAAGATA	GCAGGGTTGT	TTTTGCCTCT	TTCGACCATG	10980
GTACGTAGGT	CAAAATCAGA	CCATTTTTCA	CCTTTTCGAG	CTTCTGGGTG	AGTGGCATCT	11040
TTTTCAAAGA	AACGTCCATA	GTCATAAGGT	TTCTTGCCAC	CATACCACGT	ATCAAAGGCC	11100
TCTTCCTGAA	CGAGTAAACC	TAGTTCTGCT	GCGATTTGCA	AGGTTTGCTC	ACTAGCAGGG	11160
TTGTGGGTTG	TACGGATGGA	GTTAACTCCC	ATCTCCTTCA	TTTGTTTGAG	ACGGCGATAT	11220
TCTGCTTTAT	AGTTTTCTTC	TGCTCCAAGC	GCCCCATGGT	CGTGGTGCAA	GGATACTCCA	11280
TGGAATTTAA	TACGTTCACC	ATTCAAAGAG	AAACCTTCAT	TTGGAGTCCA	GTGATAGTAA	11340
CGGTAACCAA	ACAAATCCTT	CTTAGCATCA	ACCAATTGAC	CGTCACGGTA	AACACGCGTA	11400
ATCAATTCGT	ACAAGGCAGG	TTTGTCATTT	AAAACAGTCC	AGAGTTTTGG	TCTTTCAACT	11460
TCTAAAATCG	CATCTAGGCT	TGTTGATTCA	TGTGCTTTTA	AGGTACGACT	CGCTGTACGA	11520
ACTAAGCCTG	TTACAGCATG	ACCACCTCGT	TCAACGATTT	GATATTCGGC	TACAAGTTCA	11580
TGGTCTTTGT	CGTCCGTATT	GACGATTTTG	CTGGTCACAT	GAGTTTCAAC	CTTGCCATGT	11640
TGTTGTTCTT	CAAGTTTTGG	TGTTAAAATA	GTTGTCCCAT	TTTTCTCAAC	ATGCACCTTA	11700
TCTGTCACTT	GTAAAGTCAC	ATCACGATAG	ATACCACTTC	CTGAATACCA	ACGGCTACTT	11760
GGCTGTTTGT	TGACTGCATG	GACAGCAATC	ACATTCTCAC	GACCATCTTT	TTGAAGGTAT	11820
TTGGTGATAT	CATATGAGAA	CTGGTTATAA	CCATTTGGAT	AATGCCCCAC	TAACTGACCA	11880
TTGACATAAA	CTTGAGAATC	CATGTAGACG	CCATCAAAAG	TAAGGCGAAC	ATTTTTCTTG	11940
AGGTCTTTTT	CATCTAGTTT	GAAAGTCTTG	CGATACCAAG	CTTCCCCACC	GTTGAGCTGT	12000
CCACCTTCAT	TTTGTGCAGG	AGATTCATGA	TCGAAATCGT	TAAAGATACT	CCAGTCATAC	12060
GGTAAATCTA	ATTTTTTCCA	CGTAGATACG	TCTGCATCAG	GTTTAATGGC	TTCCTTAGAA	12120
TTTGCATTGA	GTTTAAAGTA	CCAATTTTGA	TTAAAATCCA	CTTTCCTGTC	TTCAATCATT	12180
TGATTCACTT	CTTCATTTGT	TACAGCTTTA	GCATCTTCCT	TGAGCGGTTT	TTCTTGATTT	12240
GAAGCTTGTG	ATTCTATCCT	TGGAGCTTTT	TCTTCCGGTT	TAGCAGACAC	TTTTTCCTCT	12300
TTTGGAGTTA	CGGCTTCATC	ттсттсттс	TCAGATGCAA	TAGCCTCAGT	TGAACTAGGT	12360

938 TCACTTTGTT CTGTCCTTTC AACTATATTT TTAGTTTCCA AAGCTTTATC AGCCTTTTCT 12420 TCTACTATCA TTTTTCCTC TTTAGGTTTC TCAGCAGTAT GAGTAATAAG TGTTTCATCC 12480 GCATAAACTA CAGATTCTCC AGCTATATTT CCTCCTAATA AAACTGCACA AGTCCCAATC 12540 ATTACTGAGC AAGCTCCCAC AGCAAACTTA CGAATGCTAT AAACTCTTTT CCGATTCCAA 12600 TGGCCTTTCC CCATAAAACC CTCCTTATAT TATATTTAGT GCAGTTAGCT ACTACCAAAG 12660 CCCAAGTGGT ATACATGGTA TGACAACCTA GTTTCAACAA TTTACACTCT GCGAAAATCC 12720 AATTCAAACT TCGTCAGTGT CGCCTTGCCG TAGATATGAT TACTGACTTC GTCAGTTTCA 12780 TCTACAACCT CAAAACCATG TTTTGAGCTG ACTTCGTCAG TTTCATCTAC AACCTCAAAA 12840 CCATGTTTTG AGCTGACTTC GTCAGTTTCA TCTACAACCT CAAAACCATG TTTTGAGCTG 12900 ACTTCGTCAG TCTTATCTAC AACCTCAAAA CTGTGTTTTG AGCAACCTGC GGCTAGCTTC 12960 CTAGTTTGCT CTTTGATTTT CATTGAGTTT ATATTTTATA GGAGCGCATT ATTTTGCTTT 13020 TGCTGCGTAC TCTTCGTTAC GTTTGATCAT TTGTTTTCTG TACCAAGCAA AGATACCGAT 13080 ATAGAATACA AGGAAGACTA CTGCACCAAG GATTGCTTTG ATATCACCAG TTGTAGTGTT 13140 13200 TTGAGTTTGG CTCACACCTT CTGGGAAGGC ACCTACACCT TTAGCAAGTT CTGTTGCAAA 13260 TGGTGCAATA AGTGTACCTG AAAGAAGGAA GAGTGGCAAC AAGAGTGTTC CGAAGATAAT 13320 CATACGGAGC AATTTACCAC GAGTTACAAC CAAGAGAGCT GGAGTAACAC CCATAGCGAT 13380 GATACCTGCA AGTGGCAAGA TACCATTTCC AACTTTTGAA AGAAGCACTG CTTCAATCAA 13440 CATGATTGGT GCAAGTACGT TGGCACAAGC CCAGATTTCA GCACGACCAG CGATGAATGG 13500 CCAGTCAAGA CCGATATTGA ATTTACGTCC TTGAAGACGT TTAGTAGCAA CGTTTGTAAT 13560 ACCTTGTGAT AGTGGTTCTA CGGCTGCGAT GAACCATGAA CCGATAAGTG AGAAGAGTTC 13620 CAAAGATACA CCGGCAGTCA AACCAAGAGA CAACCATCCT TTGATAACAA GACGCCATTT 13680 ATCTGCATCT GCAACACCTG CAATTGGATG TGGAGTTCCC ATAATACCGA TAACGATACC 13740 AAGGATGAAA CCGATGAAGA ATTTAGATCC CCAGAAACCG ATTTTCTTGT TCAATTTAGC 13800 AGCATCAAAG TCATATTTAT CAAGGCCTGG GAAGAATTTT TCAAAAATCT TATCCAAAAC 13860 CATGATAACT GGGTTCATCA TGTAGTTCAT GTGAGTTGAT GTCATTGGTG ATGAACTTGG 13920 GGCGTTAAGA AGGTCATCAA ATGTAGGTTT CATCAAGTCA GAGTTGATAA TTTTCAACAC 13980 ACCGACAAGG ACGATAGCTG CTGTAGCAAT AAAGAGTGAA ACCCCTTGAC TCACACCATT 14040 GTTATCAGCA TACCATTTAA TCAAGAGACC TGTGATAGAC AAGTGCCAGA TATCAAAGAT 14100 ATCGACATCA AGTGTATCTG TTTTCTTCAT AGCTAGCATC ACTATGTTGA CAATCAACAT 14160

939

GATGAGCAAG	AAGTATAGTG	TCCAAGCAGA	ACCCCAAGTG	ATTGTAGCAA	GTGGTGCCCA	14220
ACCAACGTCG	GTAATACTCA	ATTGGATACC	AGTGTTTTCA	ACGAATTTTG	CTAGTGATGC	14280
TGAGAAAGCA	GTGTTTAGCA	TACCGATGAT	AGCACCGATA	CCTGTAAGAG	CGATGGCAAG	14340
TTTGATACCA	CCTTCAAGCG	CTTTGGAGAA	TTTCACTCCA	AAAAGTAAAG	CCAATACTGT	14400
CAAAATGATT	AACATGATGA	CAGGTCCACC	CATTTCTAAG	ATGGGATTGA	AAACCTTTCC	14460
GATTAGGTCA	AAGATTGCAT	CCATAACAGT	TCCTCCCTTT	TTGATGTTAT	ATGAATGTTA	14520
ACAAATTAGA	ATTAGCTTAA	TCCGTGTTCT	TTAATAGCTG	CTTCAATATT	GTCAAATACT	14580
GGAGCGCTCA	TTGCTGGGAT	ACGGAATAAG	ATTGGCCCAG	CTTCGATAAC	TGGGATACCT	14640
GGTTCAAAAC	CAAGGTCTGT	TGCAGCGATT	GGTGTAAAGA	TATCGTAACC	TTTCATAAGG	14700
TCTTCGTTTA	CATCTTTCAC	CATGACTGCA	TCACAGTGAA	CATCATAACC	ACGGTTTGAA	14760
AGTTCTTCTT	CTAGAGCACT	TTTAATTTGG	TGACTTGAGT	TAACACCTGC	ACCGCAGGCA	14820
GCAAGAATTT	TAATCATTTA	GATTTCCTCC	GATTTTATTT	TTTAATAGAC	AAGATTAAGC	14880
GGTTGCTTCA	GCAATGTAAG	TATAAAGGGC	TTCTGGTTCA	GAAATTTTTG	ATAGGTCTTC	14940
AAGATGACCA	TTTCCTGTGA	AGAAGTCCAT	TAACTGAGCA	AGAATGTTCG	TTTGACTTGA	15000
ACTTGAATTA	TTAATGATAA	AGAAGAGTAG	GGATACTTCT	ACTTCCTTAT	CAGGAGCTAT	15060
CATATTGTGA	AAAGTTATTG	GTTTTTCTAA	TCGAACAACC	ACCACTTTCT	CAGCTAGATT	15120
ATGAACAATA	TCTGTGTGAG	GAATCGCTAC	ATTTGGCAAG	TCCTTTCCTA	GAAATTCCAT	15180
ATCTAAACCA	GTTGGAAATG	ACTTTTCACG	CGTGATCAAG	GCTTCACGAT	AAGTTGGAGT	15240
GACAATTTCT	CGTTCTTCCA	ATAAAGTTGC	AACCTGATCA	AAGAGTTGTT	CTTGACTATC	15300
CGCTTCTAAG	CAAAACACAA	GGTTTTTGTC	AAAGAAATAA	TCTAATACCA	TAAGTTTTTC	15360
CGG						15363

## (2) INFORMATION FOR SEQ ID NO: 140:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28882 base pairs (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

TAAGACTATT TAATAGTGGA GTGAAATAGG ATACGAACAA ATTGATTAGG AAAATCAAAT 60 GAATTTATAG AAATCTTTTA GCAGTTATGT TATCCTATTC TAGTTTCAAA ACGCTATAGA 120

			940			
AGCAGCATTG	TGCTAGTCkA	GATTCAGTTT	АСТАТАСТАА	AACGAGTAGC	TTGAAATCAA	18
AAAACCCACC	CTCACAGGCA	GGTTTTATCT	GTATTATTCA	GCTAGATTAT	GCTTTACCTT	24
CTGAACCGAA	TACGTCGATA	CGTTCTTCAA	CCGATGCTTG	GATAGCTTTT	ACACCGTCAG	30
CCAAGAATTT	ACGTGGGTCG	AAGAGTTTTT	TCTTGTCGTA	TTCTGCTTCG	TTTGCTTCGT	360
AGTCACGAGC	AAATTTACGA	GTTGCGTTAG	CGAATGCGAT	TTGGCATTCT	GTGTTAACGT	420
PAACTTTGGC	AACACCAAGT	TTGATAGCTG	CTTGGATTTG	CTCATCAGGA	ATACCTGATC	486
CACCGTGCAA	TACGATTGGG	AATCCTGGAA	GAGCTTCTGT	CAATTTTTGC	AAGTGGTCAA	546
GGTCAAGACC	TTCCCAGTTT	ACTGGGTAAG	GACCGTGGAT	GTTACCGATA	CCAGCTGCCA	600
AGAAGTCGAT	ACCAGTTTCA	ACCATTGCTT	TAGCGTCTTC	GATTGGAGCC	AATTCACCTT	660
FACCGATGAT	TCCATCTTCT	TCACCACCGA	TAGTACCAAC	TTCAGCTTCT	ACTGAGATAC	720
CTTTAGCGTG	TGCTTTTTCA	ACAACTTCTT	TAGCCAATTT	AAGGTTTTCT	TCAACTGGAA	780
GGTGTGAACC	GTCAAACATG	ATTGAAGTAT	AACCAACTTC	GATACACTCA	AGTGCATCTT	840
CGTAGTGACC	GTGGTCAAGG	TGGATAGCTA	CTGGTACAGT	GATACCCATT	GATTCAACAA	900
GGTTAGCGAT	CAAGTTGCGA	GCAACTTTGT	AACCACCCAT	GTATTTAGCA	GCACCCATTG	960
AAGTTTGGAT	CAAAACTGGA	GCTTTTTTAG	CTTCTGCTGC	GCGCAAGATA	GCTTGAGTCC	1020
ACTCAAGGTT	GTTTGTGTTA	AATCCACCAA	CTGCATAACC	GTTGTCACGG	GCTGCTTGGA	1080
CAAATTTTTC	TGCTGAAACG	ATTGCCATTT	TATCAGGCCT	CCTGTATATT	TTTATGGGTC	1140
ATCCCATTTA	CATTGTTCAT	TTTATCACTT	TTTGCCAAAA	AAATCTAGTT	TTTCCCGCAG	1200
FTTCGATTGA	TTTTCTTCTA	ACTCCATCTA	TGTAAACCCT	TTCTCTCCCT	AGTCTTGGAC	1260
GACTTTTGGA	AAATCTATAA	AGAAGGTTAA	ACTATTCTCC	TCCATCTCGA	AACGATAAGC	1320
PAATTTTTCA	TGTTCTAATA	GACTCTTAAC	CACAAAGAGC	CCCATACCAG	ACCCCTTGAC	1380
CTTGCGACTG	GCATTGTCAG	AAAAAGACTG	GGCTAGTTTT	TCTTGTTCCT	CTGAGCTACA	1440
GCTATTTTCG	ATAAAAAGTT	CTCCTTCTCT	TTCTCCAATT	CGAACTAAGC	CACCTGGAAC	1500
AGAGTGCTTA	ATGGCATTGC	TGATGAGATT	AGAAAGAATC	AACTTCATAA	CTGATGGGTT	1560
PAGATAAGCC	TGCTGATGGG	TCAAACTATT	GTCTATCTGG	AGCTCTCTTT	CCTTGGCTAG	1620
CAAGGCATAA	TCTTTGACCA	GATTTTGCGT	CATCTGGAGG	AGGTCAATTG	TTTCCCTATC	1680
ATCTCGCAAT	TCCTGCACAG	AAGAGAGGGA	AAGTATCTGC	AGAACATGGT	GATTGAGTTC	1740
ATCCACAATC	CCCAAGGCAA	CTCCCAGATA	CTGGTCTCTA	TCCTTATAAC	GACCGATATT	1800
CTCTCTCATA	TTTTCGATTA	GGATTTTCAA	ACTAGCCAGC	GGTGTTTTCA	ATTCATGAGA	1860
AGCTCCTCGT	AGGAATTCGA	CCTTCATCTT	CTCCAGCTGG	AGAATGGCTT	CATTCTTTTC	1920

ATGCAAGTCC	GCAATAACAG	TCAAGAGATG	CTGGTAGAGG	CTATTGATTT	GTTCCTTGAG	1980
ATTACCTATC	TCATCCTTAG	AATCCACGCG	CAATCGCACT	TGGGAATCCA	GGTCCATCAT	2040
CCGACGGGTC	ACCCGCTTGA	TTTCCAAAAT	CGGTGCAACA	ATAGTCCGAG	CGTAGATGTA	2100
GGCCACCAAA	AGGGAAATCA	GAAAGGAGGC	CAGCAAGGTA	TAGGGAAGAA	ACTGGAGACT	2160
GATTTGCTCC	GCTTCCTTTT	GTAAATCCAT	GGAAGCTAGA	AACTGGAGAA	TCATAGTACC	2220
ACCGTCTTGC	GTTTTCACCT	CGCGCTCCTC	AATAAAGAGA	GAGGTTGTCT	GGCGGTCTGT	2280
GTCCAGAGGA	AGACTGTCCT	TGACTTCTAA	CTTGTCCTCG	GTCATCTCAC	CTTTGACGGT	2340
CCCCTTGATA	TCACTAGTCT	GGGAATACAA	GTCTAACACT	TGCTCGATAC	TCTGCCTATC	2400
TTTCCCTTCT	AGGGACTGGG	CAATGGCTGT	TGCCTTTTGA	CCAATGGTTT	CCTGACGATG	2460
ACTCAGATAA	GTCGAAGGAA	AAAGAAAATA	AATAGCTAAA	TGAAGGCAGA	TAACCAGAAC	2520
ACTAAATATC	GAGAAGGTAT	AGATAAATAT	CTTTGCAAAT	AAACCTGTTC	GTTTCATTTT	2580
CGCTCCAATT	TATAACCAAC	ATTGCGCACA	GTGAGGATAC	AATCCAAGTC	TAGCTTTTTC	2640
CGCAATTCCT	TGATATAAAC	ATCAATAACA	CGGTCAAAGG	GAACCTCATC	TGTCGCTTTC	2700
CAGACGGCAT	CGATAATCTG	AGATCGAGTC	AAGGCCCGGC	CTTCATTTTT	CACTAGATAG	2760
TCCAGAATTT	CCAACTCTTT	GGCATTGATA	GGCACTTCTT	GACCTGCGAG	GCTTGCACTG	2820
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CGCTTGAAAA	TCGCGTCCAC	CCTCACTTTT	AAAAGGGAGA	GGGAGAAAGG	TTTTTCCAGA	2940
TAGCCATCTG	CCAAAGAGGC	AAAGGCACTC	ATCTTGTATT	CCTCATCTTG	AAAAGCTGTC	3000
AACATCAAGA	CAGGAACCTG	ACTGGTTTTA	CGAATCTCAG	CTAGGACTTC	TAAGCCGTTG	3060
AGCTTGGGCA	TCTGGATATC	CAGTAAAACC	AGGGCCACCT	CATAGCTAGA	AAATTGCTCC	3120
AGAGCTTCCT	GACCGTCCGC	TGCCTCAATA	GTTTCATAGC	CACAATCCGT	САААТААТСА	3180
CTGACCCCCT	CACGGATCAT	CTCTTCATCT	TCTACAATTA	AAATTTTCAT	ACTTTAACTG	3240
CTCTCTATTT	TTTATTTTTC	TTAGAATAAA	TACCTACCCT	ATTTTCTATT	ATAGTCTCTT	3300
GCTGGCCTTT	TGTCTGCAAG	CAACTGACCA	CTAGATAAAA	CGTTGTGAAA	TTCCTTTCTC	3360
ATAAATTCCA	TAACTTTAGT	ATATTATATT	TAAGCACTAA	AGTACAAAGA	AAGCAACTGA	3420
AAGCAATGAT	TTTCACCACT	GCTTTCGGAT	TTATTTTGAA	TTGTTAAATA	GCCATTCCTA	3480
TCCACTATTC	TTGAATAGAA	ACACAAGATG	CAATCTTTAT	TCTAGACTCA	TTTTTTCAAA	3540
TTTATTCACC	ATCCAGCAAG	AGCTCTTTTG	GTTGTTTTCT	AAGGAGATTG	CTTGAAGCAA	3600
GCGCCATAAC	GAGAACCACT	AGAACCAAGG	CAAGGACAAA	AATGATGATA	AAGTCTGATG	3660

			942			
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CACCAAGGTT	AGAGGCTTGA	GCCGCCTTAC	TAGCCTGTTT	GGCAACACCT	GAAGTCACAT	3780
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CCTTGTCCCC	TACTTTCCAG	CCGTGTTTGG	CTGCCAAGTC	CTTGTGCAAG	AGGATTTTAT	4440
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GACCACCTGA	TAACTGGAGA	ACATTCCGCT	TGATCTGGCT	TTCATCCAAA	CCAAGCTCAA	5280
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AATCTATCAA	GTTATAATTT	TGAAAGACCA	GGGAAATATG	GTGCATGCGA	TGGTAAGAAT	5400
AGCCCTTCTT	ACGAATATCC	TCTCCTTGAA	AAAGGATAGA	ACCTTCAACA	GGACTATCTA	5460

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CAAGAGATAC	CAAAACTACC	TCTAAACAGA	ATTGTAGGAA	GATCGAGCTC	TTGCCTTTTC	5940
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TTCCAGATTC	AGACTGACCA	GCATCCAAGC	CAATCTTGTC	ATGAAGCGAA	AGACCGTTCT	6420
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CATACGTGCC	GTTCGGCATA	CGGCGGTTCA	ACTAACTTTT	AACGCATGTC	GTTCAAGGTA	7080
ATAATCCAAA	CACGAAACCA	GTCCACGTTT	TTCAAGGACT	GGTTTTGATA	TAGCACGTTT	7140
AAGTACCGAC	TTCTGAGCTA	CTATAGTAGA	TTGAAACTAG	AATAGTACAC	CTCTACTTCT	7200

944 AAAATATTGT TAGAAATCGA TTTGACTGTC CTGAACAATT CGTCCTATTC TTATTTCATT 7260 TTACTATAAT TGATAGTGGT CGCCCCAGCC AGATACCTTA TCTGCTATCC ATTTAGGAAC 7320 CCCTAACTTA AGCAATCCCC ATAATCGTCT CGATTTCTTC TTCCATTGCT TCCAGATAAT 7380 CACTCGTAGG CGAGTACGCA AGCGCTCATC TATGCTAGTG ACTATACTTT TCATATTTAT 7440 AATTCATTCC TTTCGTTTCA CTCAAGGCAC AACACAGAAT GAAAAAGTGT TGTGATCTTT 7500 ATTTTGTTTT ATAATAATAG TGAGAAAACC TATCACTACT ACAAATCACG GGGAGGTGAA 7560 TAAGTGAGTG GTACAGCCAC TACCTCGCAT ATTTTGTCAC ATCATTTAAC GGTACATAAT 7620 AAGTTGTACC ATCTGAATAA GTTGCTACAA TATCATTTGC ATGCTCTCCT TCACCTTTAG 7680 CAAAGGTTGG AGCTCCTGCT GGATGATTTT TATTTGCCTC TTTCAATTTT TCAATAATGG 7740 CATTTTTCT GTATCTTTA TATTATCAGG ATTTTTCACT AAGATTTTGT CTGGATATGT 7800 CGGTTTAGCA GAAACAATTT TTACTGTTAC TTCTTTTTTA TTCGAAGCAC TTGTCCAGTT 7860 TCCAGCATTA TCTTTAGCAT TTAATTTTAC AGTAATTCCT GAACTAGGAA CTTCAGTAGC 7920 AGGTTGATTA TCAACATTAT TCAACTTTAA TTTCAAAAGA GCTGTTGCAT CAGACGTTTT 7980 ATCAATCGTT ATATATAATG ATGAATTGTT ATTATAAACA GTTCCTTCAT ATTTAGCTGT 8040 TTGTGAGCTA CTTGAAACAG AACTGAAATT ATACCCACTA CCTCCCTGAT TATCTTCAAT 8100 GCTTACGTCT AAATGAACTT CCCCACTATT ATTTGGCTTA GCAACAACTG TTATAGTAAA 8160 ATAACATAAA ATTTGCATAA ATAGATTAGG GAAATCAAAG CAGCTTCTAG GAATGTTTTA 8220 GCAGTCACAG TGTACTTTCC CAGCATCAAG CCACTATAAC TCTGCACATA AAAATGGAGA 8280 AGATGGCAAT CCTCTTCTCC AAATATTAAC TTCTTTACAA ACCAACTATA GTTGACAAAG 8340 AACCTAAAAT CAATTGATAA CACAAGGTCA GGTCGGTCAA CTCTTTCAAC TGAAGCCCTG 8400 TCAACTCTTC CCATTTATCA ATCTTGTATT GGAGAGAATT GCGGTGCAGA TAGAGTTGCT 8460 GGGCTGTTTT AGTGAGAACA GCACTATTTT CCCAAAGAGA GAGAATGATT TCCTGAATCT 8520 GATCTTGATC CAAAATCATC TGGTGTAGAC ATTCCTTGAT TGGCTTCAAG TCCACGAGTC 8580 TTTCTCCCAT ACTCCAAAGA TAGAGCTGAG AAAAAGTATG AACACCTTGG TGACCCTGAC 8640 GCCACCATGT CTTGAACAAA TCCCGCTCAG CTTTGATTAA GTCTGATAGG GCTTGATGTC 8700 CCGTCTGAGA CCAAACCTGA CCCAACATGA TAGAAAGACG AAGTCCAAAG TCATACTCAA 8760 CCGCTTCAAT CGTATCACTT AAAATATCTC TTACAGAAGT GTATTTGTCT TGTTGAAGCA 8820 CGAAAACATA ATCCTGAGCT CCGACCTGTA GCACTGTCTG ACAATTCGGA AAAAGAGTCC 8880 GCATCATATC TAGCCAAGAA GCCAGATTTT CCTGCTGAAA ATAAGAAAGA TGGCAATAAA 8940 CCAACTGAAT CTTTTTAAAA ACTTGCGGTG CCTGTCCCTT GCCCTCAACC AGATAGGAAT 9000

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946 GCAACCTTAT ACCCACGGTA CTCAAAATAG CGACGAATCG TATCAAAAGC TACCGTCGAA 10800 CGGGCGTTTC CTACGTGGAT ATAGTTGTAC ACCGTTGGCC CACAAACATA CATCTTGATC 10860 TTGCCGTCCT CAATCGGGAC AAATCTCGCC AAATCACGAG ACATGGTGTC ATAGATTTTA 10920 ATCATAAATC ATAATCAGGA AAGCTGAAAT CCAAGAACAA TTAGTTTCAT CACTAAAAGT 10980 TCAAGTAAAT TTCAGTCCGA ATATCTCTAC ACTTCGGAAT CCCTTGCTCC TTTCTCATTC 11040 AGATAAACCA CCTGAGTCTG TTTGACAAAG CCAATTTTTT CATACAAACG TTTGGCACCT 11100 ACATTGCTAT CTTCCACTGC AATCTGAAAT TCCTTGTCAT TTTGCTCAAT TAGTTGGTTG 11160 ACGAGGGATT TTGCTAAGTA GCTTCCATAG CCTTTTCCAC GTTCAGGTTC CAATATTGCT 11220 AAACCGTAGA GGTAATTCGT ATTAGTCGAT AAATCAACCG TACAAGTTCC AATAACCTGA 11280 CCAGCTTTTA ATAAAATATA TAGTCGGCTT TCTGGATCTT TCAGAGCTTC AGCGACATAT 11340 CTATCCACAA CTTCTCTCGA TTCATGTTCC TCTGAAAATG CCTGAAATTT TAATTGACTA 11400 ATTTGATCCT GATACGAACT ATCTGCTAAC AAAACTTCAA GATGGGAAAC ATTTGCTAAC 11460 GGATAAGGTC TTCTATCCTT ACCTAACCAA GTTTCTGTCT CTTCATCCTC GATTAGTCCC 11520 CAGTTACTGG CAAAGTCAGG ATGATTCTCT AAAAAAATAC GTTCTGTCTG AAAAGTGACT 11580 GACCGAATGG GGAAAGAAGC TGTTTCTCTC TCAAAACTAG TAAACAATGC ACGCGCAATC 11640 CCCTGACGGC GATGACCTGG ATGAACCAGT ATCGTCACTT CTACATCTTG GTCATCTGCA 11700 TAGACAGTTA ATAAACCAAC AAGTTCGCCT TTTTCATAAT AAAGGAAAAA GGCGGGCATG 11760 TTTGGGTCAA AATTAAGCAT GTTAGAGAGA TAGGGATCGC GATAGGTACC GTCATAGTTT 11820 TGGCAACAGT TAATTACTTT TTTCGCCTCA GATAGCTCCT CTTGGCTTAA CTTGTTTCTT 11880 GCTTGAATCA TATAGGTATC CTCTACAAAC CAGACGATCT GTGACTGGCA TCTTTAGCCT 11940 GCTCGAGTTT ATTGACATAA TACTCTCGTT TTTCTTCGAC TTCGTGAATG ACAGGCTCAT 12000 CTTTCTTACC ATGAAGACGG ACAATCTTGG CCGGAATACC GACAACCGTC ACGTCACTAG 12060 GTACATCTGC TACGACAACT GCTGCAGCAC CGACCTTGGC ATTTTCACCA ATTTCCACAG 12120 GCCCGATAAC TTGGGCATGG GCTGATATGA GGGCTCCCTT TCGTACAGTC GGATGGCGTT 12180 TGCCACAGTC TTTCCCTGTT CCCCCGAGAG TCACTCCGTG ATAGAGAAGA ACGCCTTTTT 12240 CAACAATCGC TGTCTCTCCA ATCACCAGAC CAGAACCATG GTCAATAAAA ACACCTGAAT 12300 CAATCTGGGC TCCTGGATGA ATCTCAATCT GAGTCCAAAA GCGCCAAAAC TGACTGTACA 12360 TACGAGCTAA TAGTTTGAAG CCGTGCTTCC AGAGAAAATG CGAGAGACGG TGGGCCGCCA 12420 AGGCCTTGAC ACCTGGATAA GTCAGCAAAA CCTCCAAAGT GGTGCGGGCC GCTGGATCAT 12480 TTTCTTTTAC AATATCAATG GTTTCGCGCC ACCACCCCAT ACATTTCTCC TTTTCTTATT 12540

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CCACATCACG CATAATACGG	TCAAATTCTT	CGTGGTCCGC	ATATTTTTCT	TCGTAAACGG	13920
CAGTCACTTG GTCTTTCACT	ACTTGAGTCG	CAGCTTCACG	GGCCAATTTC	TCTTCTACTT	13980
GAACTGCCTT TTGGAGGTCA	CTGTTGTAGG	CTGCAATGAT	TTCAGCTTGC	AATTCAGCAT	14040
CCACGTGAAG CAATTCCACT	TCTGCTTTTT	CTTTACCGAC	AGCAGCAACG	ATTTCTTCTT	14100
GGAAGGCAAT CAATTCTTTG	ACAGCTTCGT	GCCCTTTAAG	GAGCGCTTCC	AACATGATTT	14160
CTTCTGACAA TTCTTTGGCA	CCAGACTCTA	CCATGTTGAT	AGCGTGCTTG	GTTCCAGCTA	14220
CTGTCAATTC AAGAAGAGAT	TGCTCTGCTT	GTTCTTGACT	TGGGTTGATG	ATGATTTGGC	14280

948

CATCTACATA TCCCACTTGT ACCCCAGCAA TTGGTCCGTC AAATGGAATA TCTGAAATAG 14340 ACAGTGCCAA AGATGAACCA AACATAGCAG CCATTGGTGC AGATGCATTT TCATCATAAG 14400 AAAGCACTGT ATTGATGACT TGGACTTCAT TACGGAAACC TTCCGCAAAC ATAGGACGAA 14460 TCGGACGGTC AATCAAACGC GCTGTCAAGG TCGCATCTGT TGAAGGACGT CCTTCACGTT 14520 TCATAAAGCC ACCAGGAAAC TTCCCAGCCG CATACATTTT TTCTTCGTAG TTGACTTGGA 14580 GTGGGAAGAA ATCCCCAGTT GCCATTTTCT TAGACATAAC GGCAGCAGTC AAGACAGTTG 14640 ACTCACCGTA ACGTACGACA ACAGATCCAT TTGCTTGCTT AGCAACCTGA CCAGTCTCTA 14700 CAATTAACTC ACGACCCGCA AAAGTCGTTT GAAACACTTG TTTTGCCATT TTAATCCCCT 14760 TTGGATTGAT GAAATTATAC GCCTTGCCTA CAAAGATCAA GATACCAAGG ACGTCAAAAG 14820 CAAAGTAAAA ATAGGAAACT GACGAAGTCT TCGATGAAGA CAAGACAGTT TATCTTTTTT 14880 ACACAGCTTT TCGGCCGTGT TCAATTACAC AAGATATTTT GGACGGTTCG GCTTGCCGAA 14940 CATTTCTGTA GAAAAATAGG AAGGTGACGT CGCACTCGAC GAGTGCTAGG AAGCTTATCT 15000 TTTTTCCTAA GAAATGAGAC CAAAATTCAA GTCATCAAGA TACCAAGCCG TCAAGCAACT 15060 CAAAGGAAGA TAGGAAATCG AACGACGGAG CGACTACTCC TAGGGAGATT TATCTTTTTC 15120 CACAGAGTTG TAGGCAAGTT CAGTTTTCAA GATACATCAT TAGAAAGGTT TAATACTAAA 15180 GTATCTAAAG CTTTCACGCT AATCGCTATC GGGCGATTAG CTAAATGCTT TACTAACTCT 15240 CTCGTCAAAT AACATCGATT TGACTCACTC GTGTCGTTAA ATCTTACAGT TTAAATGCAT 15300 TGTATTATTT AATACCTTCA TCTTTGTATC AAGTACGTAC AGAATTTATT TTATCATATT 15360 TTTCTTAAAA AGTGAGGTCT TTACCATTAA AAAGGAACCA TTCCCCTCAC CTGAGAAGAA 15420 TGGTTTGCTT TTATTATCCT AGAGACTGGT GATTAAACAA GGCATGGGTT GCTTGATGGA 15480 TGTATTTTGC TGTATCAGCA TTATTCATCG TATAGAGATG CACACCGGCA ACATCCTGAG 15540 TTACCAAGTC CACGATTTGG TCCACTGCAT AGGCAAGTCC TGCTGCTCTG AGCGACTCAG 15600 GGTCATGCTC ATACTTGTCT AAGATGGCTT TAAATTTGCG TGGAAGATGG ATATTCTCAC 15660 AAGTCTTCAA GAGTCGGAGA GCCTGATTTC GATTCAGAAT TGGCATAATT CCTGCATGAA 15720 TGGGAACATC AATCCCAGCC AAGATACACT TGTCCTGAAA ATCATAGAAG CGCTCATTGT 15780 CAAAGAAGAG CTGAGTTACG AGGCTCGAAC AGCCTGCATC CACTTTCTTC TTAAGATTTT 15840 GAATATCTGA AATCTGATTT GGCGAATCTG GATGCCCTTC TGGATAGCAA GCTCCAATAA 15900 TATCAAAGTG AGGGGTTTGT TCCTTGATAA ACTCAATCAA GTCGGTTGCA TAGCGGAAAT 15960 CCTTTTGTGG TTCCACGTCT GGAATAATAT CCCCACGAAG AGCCAAGATT TTCTGCACCC 16020 CAACTTTGTC CAAGTCAGCA ATAGTTTCAG CAACCTTGTC CTTAGTTAGA TAAATAGCTG 16080

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TCGTTTCCTT	GATATTAAAT	TTATTATTGC	TGGCAGTTAC	ACTGATAAAA	TGGGGAGCCA	16200
ACTCCTGCAT	ATCCTGCAAG	GCTGAAATAA	TGTTATCATT	ACCCACGGCT	GGGTTTGGAG	16260
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GGCGGAGTGG	CAATTTTTCA	CGAAGAGCAG	CCTCGTCGAT	TTGGATGATT	TTCACACCAG	16860
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950 AGTCAAGACC GATAGCATCT ACTGGTAAGT TTACAAGGTC AGCGTATACG TCACGAACAT 17880 CACCGAAATA AGTTTGAAGC AAGACTTCAA GACCTTTTTT GTCAGCCAAG AGTTTGTTGT 17940 AAAGGTTCAA GAAGAGAGCT TTTTCTTCAG CTGTCAAGTC TTTTACAAGA GCCGCTTCAT 18000 CCAATTGGAT GCGAGTCGCA CCAAGTTCAG CCAATTTAGC AAAAACTTCT TGGTAAGCAG 18060 CCACTAAGCT ATCTACGAAG TCGTCTGCTT TCACGCCTTC TTCAAAGTCT GACAATTGAA 18120 GGAAAGTGAA GGGACCTACA AGAACAGGAC GAGTGTTCAA TCCAAGTTCT TTGGCTTCTT 18180 GGAACTCATC GAAAATCTTG TGACCAGCCA ATTTTACTTG AGTGTCTTTT TCAAATTTAG 18240 GAACGATGTA GTGGTAGTTA GTGTTGAACC ATTTCTTCAT TGGAAGGGCG CGAACGTCCC 18300 CTTTTTCTCC CTGGTAACCA CGTCCCAAAG CGAAGTAGCG CTCAAGGTCA GACAAGTCCA 18360 AGTTTTGAAC GGATGCAGGC ACCACGTTGA AAAGGAAAGC CGCATCTAGG AAGTTATCAT 18420 AGTGAGAAAA GTCATTTGAT GGAATTTCAG TGATGCCTTT TTCTTTGACA ATGTTCCAGT 18480 GTTTAGCACG CAAGTCTTTT GCTGCTGCTA AAAGTTCTTC TTCTGAGATT TCTTTTCTAA 18540 AGTATTTTC AGTTGTAAAT TTTAATTCAC GGAATTCGCC CAAACGAGGG AAACCGATGA 18600 TTGTAGTTGA CATGATGTGT CCTCCAAAAT TTGTTGTTGA AACTATCTTA ACAGAAAAGA 18660 AAGCGTCTGT ATAATTGTAA AAAATTAGGG TTTGATATAG TTTGAAACTA TATATCTGTT 18720 TCGGACAAAA GAAAAAGACT TGAAGCAAAC GTCTCAAATC CTTTGTAATT CTTACTTTAC 18780 AGCTATATTC CAATTAGAAT ACTAAAACAT GTTATTAGTA ATTCTTATAA GTGACTATGA 18840 CCTGTTATTA GAAAAGACTA TAACTGATTC TAGTCAACTT TTTCCCTGTT CAAGTGGGAC 18900 GATTGCTAGT GTCTTTCCTA AACTGGCTAG GACTTTTAAG ACTGTATCCA ACTGAGGACT 18960 AGTCTTTCCT GTCTCCATCC TAGCTATGAC AGGCTGGCTT ATTCCACTGA CTTCTTCCAG 19020 CTTTTTCTGA CTGATTCCTT GTTCATACCT AGCCTCAATC AACTCGCTCA TGATAGCCAC 19080 TCGCATATCA CTTTCAAGGA TTTCCTCCTT GCTAAAGAGC TCAGATGGAC ATCCTTCCAA 19140 TTACTCCCAA TAGCACTATT CTTCATCACT TAACCCTCTT TTTTTTACGT CTATGTATTT 19200 TTAAAAAAT GAGCGAATTA TGATTCGATA GATTGACCAG TGGGTTTAAA GTTGGTGCTA 19260 GCCTATTTCT TAAGCGATTT TCCTTTTCTA GGATAAAGCA GTTCCTGCTT GCTTAACCCC 19320 AATTTTCCAC GATGAATCCA ATAGTAAATG GTTGAAATTC CCACGTTAAC CCCTTTAGCC 19380 ATCACCATCA TTTCAGGCGA AAATTTTTGG TTATGTTTTT GGTTATGTAT AGTGGAGAAT 19440 CTTTTCCTTT AGTTTCTTAA GACTGTTGAG CGTAGTCGGC AGAATAAATC TCTTTGAAGC 19500 GCCCTTTTCC AAGACATTGT CGGACTGTCC CACGCTTGAT TTCAGTGTGG ATAGTTTGAG 19560 GAGCTTTTCC AAGTAGAGAG GCAATTTCTC TATTTGATTT TCCTTCTTTT TTCCATCGTT 19620

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AATCTATGAG	GAAGACAAGA	AAAAGAATAT	CAATCAAGTA	AAGTCACAAA	GTCACATTAG	19800
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TTTATTTGAA	ACTCCAGCTT	CAACTTCTAA	ATTGCTAGAA	CTCTCTTCTT	CATCGATTCC	27360
AATATATAA	GCTAATACAA	AGGTAATAAC	AACCGAAATG	ACCGCCACAA	TTAAAGCATT	27420
TACAATATTT	GATGGCACAT	CAGAATAAAT	AAATTGAGGC	AACGCTATCA	AAGATGGGAC	27480
AGCAAATAGA	TATGCTTTAA	CACTAGTAAG	ACCTGCAAAT	AATCCCGCTA	ATCCACCACC	27540
AATCATAGCT	GCATAAAGCG	GTTTTTTATA	TTTTAAAGTC	ACACCATATA	ATGCAGGTTC	27600
GGTAATCCCT	GCAAGTAAGG	CTGAGAAACC	TGCTGCAAAA	GCAATTTGTT	TTGTATTATT	27660
ATTTTTACTC	TTTAATGCAA	CAGCCATCGA	AGCAGCCCCT	TGAGCTAAGT	TTGACCCTAA	27720
CATTGCTGGA	AGAATTAATA	CGTCTGGAGT	AGCAATAGAT	GCCGCCAAAA	AAATAGGTGC	27780
AAAAGCCCAA	TGCATTCCAG	TCATAACAAT	AAATGGCATA	ATAGCACCAA	GAATAGCTAA	27840
TGTAAGCCAT	CCAGCTACAC	CATACATTTG	CCCAACTAGA	TTTGATAATC	CTTCACCAAC	27900
AATTACTCCA	ATAGGTCCGA	CTACAACTAA	GGCAATACAG	CTTGATACTA	ATAATACTAG	27960
CGTAGGTTGC	AAAAAACTCT	TAGTAATAGC	TAGTGTTAAT	TTAGCAATTA	TTTTTTCAAT	28020
ATATTTCATC	AACCAAACCA	TAATAAGAAT	TGGAACGACT	GATGAACCAT	AACTAGCTGG	28080
TGTCACAGGT	GCACCAAATA	AACTAAGAGG	ATTCCCTGAT	TGCACCATTT	GAACAAAATT	28140
TGGATGGAGA	AGTACACCTG	CTACAGACAT	AGCTAATGTA	GATGTTACTT	TTAATTTTTG	28200
TGATGCAGAA	TAAGCTAATA	ACAGCGGTAA	GAAATAATAT	GGAGCATCCC	CAAAAAATGT	28260
CAAAAAGCA	ATAGTCTGAG	AATCTGATTG	CAATATACCA	AGCATTGGTA	AAATGATTAC	28320
CAAGACTTTC	AACATACCTC	CCCCTAACAT	TGCTGGAATG	ATTGGAGTCA	TGGAACCAGC	28380
GATATACTCA	ATGATTCTTT	CTAAAATATT	CCCTTTGTGC	CCTTGAACAA	CTGAATCGGA	28440

			956			
TTCAAAATTG	CCAAGTTTAA	CGAATTCTTT	ATAATAATTA	GCTACATCAT	TACCAAGTAT	28500
AATTTGATAT	TGTCCATTCT	TTTTCATAAT	ACCTATTACA	CCTGGTATCT	TCTTCACATC	28560
ATCATCATTG	ACTAAATTTT	CATCTTTTAA	TTCTAATCTT	AAACGTGTTA	CACAATGGGT	28620
AACTCTATTG	ACATTTTTTT	CACCTCCAAT	TACATCGAGG	ATTTTTTGTA	CCGTATCTTT	28680
ATAACTCATG	GTATTCTCCT	ATTCTATTAA	TCTAAATTTT	TTGTTAAGCG	ACGAATATGA	28740
GCCATCAAAT	AAACTAATTC	ACTAGAAGTC	AGCAAATAAT	TGTACTCCGT	TTGTATAAAC	28800
ATTGCTACCT	GTTCACCACA	TTCATATTCT	CTAGGATATT	TATTTTTCAT	TAATGCTAAC	28860
AAGTCTTCAT	CATCATCGTC	GG				28882

### (2) INFORMATION FOR SEQ ID NO: 141:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12835 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

GCCTATGTCT	ТТТТСААААА	AATGCTTGAC	TTGAGACGGG	AACTAGGGAA	GTCTAAAGGC	60
GGAAGGCATT	GATTTATACT	CTTCGAAAAT	CTCTTCAAAC	CACGTCAACG	TCGCCTTGGA	120
TTATATATGT	AACTGACTTC	GTCGATGCTT	ATCTACAACC	TCAAAGCAGT	GCTTTGAGCA	180
ACTTGCGGCT	AGTTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATTATA	TTACTTTCTA	240
TTTGTAGGAG	GTGGCTTATG	AAGATTCCTC	TCTTAACTTT	TGCAAGGCAT	AAATTTGTTT	300
ATGTCTTGCT	TACTTTGCTT	TTTCTTGCTT	TGGTTTATCG	TGATGTTTTG	ATGACTTATT	360
TCTTTTTTGA	TATTCATGCG	CCCGATCTAG	CTAAATTCGA	TGGACAAGCA	ATTAAAAATG	420
ACTTATTAAA	ATCAGCATTA	GATTTTCGTA	TTCTCCAGTT	CAATCTAGGT	TTTTATCAAT	480
CATTTATTAT	TCCAATCATC	ATTGTTTTGC	TAGGTTTTCA	ATATATTGAG	CTGAAAAATA	540
AAGTTTTACG	ATTGAGTATT	GGAAGAGAAG	TGAGTTATCA	AGGGTTAAAA	AGAAAGTTGA	600
CTTTGCAAGT	TGCAAGTATC	CCTTGTTTGA	TATATTTAGT	GACTGTGCTG	ATAATTGCAA	660
TTATAACCTA	TTTCTTTGGG	ACTTTTTCTC	CTCTTGGATG	GAATTCTCTA	TTTTCTGATG	720
GAAGTGGTTT	ACAAAGACTC	CTAGATGGAG	AGATAAAAAG	CTATTTGTTC	TTTACTTGTG	780
TCCTACTAAT	CGGTATTTTC	ATCAATGCAA	TCTATTTTTT	ACAAATAGTT	GATTATGTGG	840
GGAATGTGAC	TCGTTCGGCA	ATCACCTATT	TGATGTTTCT	TTGGCTTGGT	TCTATGCTGC	900
TTTATAGTGC	CTTGCCTTAC	TATATGGTTC	CTATGACGAG	TTTGATGCAA	GCTAGCTATG	960

GGGATGTAAG	TTTGATGAAA	CTCTTTACTC	CTTATATCCT	TTATATTGTC	CCTTACATGG	1020
TGCTTGAAAA	ATATGAAGAT	AATGTTTAAG	AATTTTAACA	ATATTTTGCT	AAATAGAAAG	1080
ATTGTTTTAC	TACTTCGTAT	AGTTCTGATG	ATGATTTTGA	TAAACCATCT	ATTGTCAACA	1140
GCGGTTCAAA	AGCAGGATGC	TGTTATCTTT	TTCAAGAGAG	AATTGATTTC	AATTTTTTCC	1200
TATAATGACT	ATTCTGAAGC	GAATTTAGAA	ATCCCCAAAC	TATTGTTAAA	CCTTTCGCTT	1260
TTCATGGTAG	GATGGCTCTC	TGTCATTTTA	CTTGAAAGTG	ATTTGGCAGA	CCATTACCAT	1320
CACTTGATTC	GCTATCAATC	AAGCTCCTTT	TTCGATTATA	CAAGGAAACG	ATTGGTTGTC	1380
ATTTCTAAAT	TTTTTACTCA	AGATTTGTTT	GTCTGGTTTC	TTGGTTTACT	TCCTCTAGGA	1440
ATTCATTTCA	AAACAGTCGC	ACTTTTCTTT	TTACTTGCTC	AGTTAATGAT	GTTGTACTTA	1500
CTACTGTCTT	ATCTGATAGC	ACTGATTAGT	GCGGGCGCTG	GTTTTTCCTT	TTTTCTCTAT	1560
TTTTTAGCAT	TTGTGGGACA	AGAATGGATG	ATGGATCATA	TTGTAACAGT	GTATTTAGTA	1620
CTCTTAAGTT	TATTAGTTAT	GTTGATTGTT	AGTCGCTTGG	AAGAGAAATT	TAAGAAAGGA	1680
PAAACGATGA	GACTTGAAAT	TATAAATGGA	CAGAAAATTT	ATGGGAAAAG	ACCTATTTTA	1740
AATCAGTTGA	ATTTGGTGTT	TCAATCAGGA	AAAATTTATG	GACTTAAAGG	TGATAATGGA	1800
rctggcaaga	CGGTTCTTTT	AAAGATACTT	GCTGGTTATA	TTAAGCTTGA	CAAAGGAAAA	1860
GTTCTTCAAG	ATGGTAAAGT	TTACGGGGTA	AAAAATCATT	ATATTCAGGA	TGCAGGAATT	1920
PTAATTGAAA	AAGTCGAGTT	TTTATCTCAT	TTATCCCTGA	GAGAAAATTT	GGAACTGTTA	1980
AGGTATTTTT	CATCTAAAGT	TACGGAAAAA	AGAATTGCCT	ATTGGATTCA	ATACTATGAT	2040
PTACAGGAAT	TTGAAGACAT	TGAATACCGT	CATTTATCCT	TAGGAACAAA	GCAAAAATG	2100
GCCTTGATTC	AAGCCTTTAT	TTCCTCTCCT	TCTATACTCT	TTCTCGATGA	ACCTATGAAT	2160
GCTTTGGATG	AGAAGAGTGT	GAGGTTAACC	AAACAGGTCA	TTTTATCTTA	CCTGAAAAAA	2220
GAAAATGGTC	TGGTTATCCT	GACGTCGCAC	ATATCGGAAG	ATATTTCAGA	CCTTTGTACA	2280
GATGTATTAG	TTGTCGAAAA	TGGACATATA	CAAATGTAAA	GGATATACAA	TCCTAGGAGA	2340
FGGCTTATGG	CACATCTAAA	ATCATTTATT	ACACGATATT	CCAAGGTTTA	TATTGGTTTA	2400
GTTCTGCTGA	TCTGGCTGTC	TTTCTTCTTT	ATCCCTTGGG	ATAAACCACT	TCTGGGGATA	2460
AGGATTGACA	TCTTCATCAT	ACAGAAAATC	TTGCTAGCTT	TTGGAATTCT	GTCCATTCTC	2520
ATGGCCTTGC	TGTCCAAGAA	AGTCAGTCTC	TTTGTTTTTG	GACTGATTTG	CTGTCTTTCT	2580
CTTTGGATTA	ACTTATTTAT	CACATTTGCC	ATTTTGCCGA	TTTTTGGCAA	TTAAACAGTC	2640
ATAAAAGTCG	GAGAGGTTAG	CTTGAAAACT	AACCTCTTTT	TCCTTTTCAA	AATGGGGATT	2700

CTTCCTTGAA	AATAATCAGT	AATTGTGCTA	958 AAATTAAAGG	AACATTCTAA	AATATTCGGA	2760
ATTTAAAGTA	AGGAAAAACA	TGGCTAATAT	TTTAAAAACA	ATTATCGAAA	ATGATAAAGG	2820
AGAAATCCGT	CGTCTGGAAA	AGATGGCTGA	CAAGGTTTTC	AAATACGAAG	ACCAAATGGC	2880
TGCTTTGACT	GACGACCAAC	TAAAAGCAAA	AACAGTTGAA	TTTAAGGAAC	GTTATCAAAA	2940
TGGAGAATCA	CTGGATTCAT	TGCTTTACGA	AGCATTTGCG	GTTGTCCGTG	AAGGTGCCAA	3000
ACGTGTCCTA	GGTCTCTTCC	CTTATAAGGT	TCAGGTCATG	GGGGGGATTG	TTCTTCACCA	3060
TGGTGACGTG	CCAGAGATGC	GTACAGGGGA	AGGGAAAACC	TTGACTGCGA	CCATGCCGGT	3120
ATACCTCAAT	GCCCTTTCAG	GTAAAGGGGT	TCACGTAGTT	ACGGTTAATG	AATACCTGTC	3180
AGAACGTGAC	GCGACTGAGA	TGGGTGAATT	GTACTCTTGG	CTTGGTTTGT	CAGTAGGGAT	3240
TAACTTGGCT	ACCAAATCTC	CAATGGAGAA	AAAAGAAGCC	TATGAGTGTG	ATATTACTTA	3300
CTCAACTAAC	TCAGAAATCG	GATTTGACTA	CCTTCGTGAC	AACATGGTCG	TTCGCGCCGA	3360
AAACATGGTA	CAACGTCCGC	TTAACTATGC	CTTGGTCGAT	GAGGTTGACT	CTATCTTGAT	3420
TGACGAGGCT	CGTACACCTT	TGATTGTATC	AGGTGCCAAT	GCGGTTGAAA	CCAGTCAGTT	3480
GTATCACATG	GCAGACCACT	ATGTAAAATC	TTTGAACAAA	GATGACTACA	TCATCGATGT	3540
GCAGTCTAAG	ACTATTGGTT	TGTCTGATTC	AGGGATTGAC	AGGGCTGAAA	GCTACTTCAA	3600
ACTTGAAAAC	CTCTATGACA	TCGAAAACGT	GGCTTTGACT	CACTTTATCG	ATAACGCCCT	3660
TCGTGCCAAC	TACATCATGC	TTCTCGATAT	TGACTATGTG	GTGAGCGAAG	AGCAAGAAAT	3720
CTTGATTGTC	GACCAATTTA	CAGGTCGTAC	CATGGAAGGT	CGTCGTTATT	CTGATGGATT	3780
GCACCAAGCT	ATTGAAGCCA	AAGAAGGTGT	GCCAATCCAG	GATGAAACCA	AGACATCTGC	3840
CTCAATCACG	TACCAAAACC	TCTTCCGTAT	GTACAAGAAA	TTGTCTGGTA	TGACGGGTAC	3900
AGGTAAGACT	GAGGAAGAAG	AATTCCGTGA	AATCTACAAC	ATTCGTGTTA	TTCCAATCCC	3960
AACAAACCGT	CCTGTTCAAC	GTATTGACCA	CTCAGACCTT	CTTTATGCAA	GTATCGAATC	4020
TAAGTTTAAA	GCGGTTGTCG	AAGACGTTAA	GGCTCGTTAC	CAAAAGGGTC	AACCTGTCTT	4080
GGTTGGTACA	GTAGCGGTTG	AAACTAGTGA	CTACATTTCT	AAGAAATTGG	TTGCAGCTGG	4140
TGTTCCTCAC	GAAGTCTTGA	ATGCCAAAAA	CCACTATAGA	GAAGCCCAAA	TCATCATGAA	4200
TGCTGGTCAA	CGTGGTGCCG	TTACCATCGC	AACCAACATG	GCGGGTCGTG	GTACCGACAT	4260
CAAGCTTGGT	GAAGGTGTTC	GTGAACTTGG	AGGACTTTGT	GTTATTGGTA	CAGAACGTCA	4320
TGAAAGTCGT	CGTATCGATA	ACCAGCTTCG	TGGACGTTCA	GGTCGTCAAG	GAGATCCAGG	4380
TGAGTCACAA	TTCTACCTAT	CTCTTGAAGA	TGATTTGATG	AAACGTTTTG	GTTCTGAACG	4440
CTTGAAGGGA	ATCTTTGAAC	GCTTGAACAT	GTCTGAAGAG	GCCATTGAGT	CTCGCATGTT	4500

GACGCGTCAG	GTTGAAGCAG	CTCAGAAACG	TGTCGAAGGA	AATAACTACG	ATACCCGTAA	4560
ACAAGTCCTT	CAATACGATG	ATGTCATGCG	TGAACAACGT	GAGATTATCT	ATGCTCAACG	4620
TTACGATGTC	ATCACTGCAG	ATCGTGACTT	GGCACCTGAA	ATTCAGTCTA	TGATCAAACG	4680
CACGATTGAA	CGTGTCGTTG	ATGGTCATGC	GCGTGCCAAA	CAAGATGAAA	AACTAGAGGC	4740
AATTTTGAAC	TTTGCTAAGT	ACAACTTGCT	TCCTGAAGAT	TCTATTACGA	TGGAAGACTT	4800
GTCAGGCTTG	TCTGATAAGG	CCATCAAGGA	AGAGCTTTTC	CAACGTTCCT	TGAAGGTTTA	4860
CGATAGTCAG	GTTTCAAAAC	TACGCGATGA	AGAAGCAGTT	AAAGAATTCC	AAAAAGTTTT	4920
GATTCTACGA	GTGGTGGATA	ACAAGTGGAC	AGATCATATC	GATGCCCTTG	ATCAATTGCG	4980
TAACGCGGTT	GGACTTCGTG	GCTATGCTCA	GAACAACCCT	GTTGTTGAGT	ATCAGGCAGA	5040
AGGTTTCCGT	ATGTTTAATG	ATATGATTGG	TTCGATTGAG	TTTGATGTGA	CACGCTTGAT	5100
GATGAAAGCA	CAAATTCATG	AACAAGAAAG	ACCACAGGCA	GAACGTCATA	TCAGTACAAC	5160
AGCGACTCGC	AATATCGCTG	CTCACCAAGC	AAGTATGCCA	GAAGATTTGG	ATTTGAGCCA	5220
GATTGGACGC	AATGAACTTT	GCCCATGTGG	TTCTGGTAAG	AAATTTAAAA	ACTGTCACGG	5280
TAAAAGACAA	TAAAATGAGA	TAGTTTAGAG	GCGGATATCT	TGTGAAAAGT	AAATTTTTAC	5340
TGGGTATCCG	TTTGCTTTAT	AAGGAGATGA	GTTATGGTAT	TTACAGCAAA	AAGCTCTAAA	5400
ATAAATATAG	AAGAAGTTCG	TGCCTTGTCA	AAATTAGAAG	GTCAGGCTTT	GGAGAGGAAA	5460
TCACAGCGAG	ATCAAGAGCT	AGAAGCCATT	ATACGTGGAG	AAGACCAGCG	AATTCTCTTG	5520
GTAATCGGGC	CATGCTCATC	TGACAACGAA	GAAGCTGTCC	TTGAATACGC	TAAGCGTTTG	5580
GCAGTCCTAC	AAGAAGAAGT	GGCAGATCGT	ATCTTTATGG	TTATGCGTGT	TTATACTGCC	5640
AAACCCCGTA	CCAACGGAGA	TGGCTATAAG	GGCTTGATTC	ACCAGCCTAA	CGCGACAGAA	5700
GCGCCTAGTC	TTATCAATGG	AATCAAAGCC	GTTCGCCATC	TTCACTATCG	TGTCATCACA	5760
GAAACAGGGA	TGACAACTGC	TGATGAAATG	CTTTATCCTG	AAAACCTTCC	GCTTGTACAT	5820
GATTTGATTT	CTTACATGGC	AGTTGGTGCC	CGTTCAGTTG	AAGACCAGCA	ACACCGCTTT	5880
GTGGCAAGTG	GGGCAGGATT	TTCTACTGGT	TTTAAAAATC	CAACCTCTGG	AAATCTCAAT	5940
GTCATGTTTA	ATGGGATTTA	TGCTGCTCAA	AACAAACAAA	GTTTCCTTTT	CTTAGGAAAA	6000
GAAGTAGAAA	CAACTGGGAA	CCCGCTTTCA	CACGCTATTC	TTCGTGGTGC	TCTTAATGAG	6060
TATGGAAAAA	ATATTCCCAA	CTACTATTAT	GACAATTTAA	TTGATACCAT	TGCCCAGTAT	6120
GAGAAAATGG	GCTTGGAAAA	TCCTTTTATC	ATCATTGATA	CCAATCATGA	CAATTCTGGT	6180
AAGCAGTATA	TTGAACAGAT	CCGAATTGTC	CGCCAGACCT	TGATTAACCG	TGCTTGGAAT	6240

			960			
GAAAAAATTA	AGCAGTTCGT	TCGTGGTTTT	ATGATTGAGT	CTTATCTGGA	AGATGGTCGA	6300
CAAAATGAGC	CAGAAGTATT	TGGTAAGTCT	ATCACAGACC	CTTGCCTGGG	TTGGGATAAC	6360
ACAGAAGCTC	TTGTCAGAGA	AATTTACAAA	ACGTTAGGAG	AATAAGATGG	CATTTATTGA	6420
AAAAGGTCAA	GAAATCGATA	TGGAAGTCAT	CAAGGCTGAA	ACCCAATTGT	CTGCGGAAGC	6480
CTTGAGACTC	AAGGAAAGCC	GTGACAGGGA	ATTGGCAGAT	ATTATTTCAG	GGGAAGATGA	6540
CCGTATTCTC	TTGGTGATTG	GTCCTTGCTC	TTCTGATAAT	GAAGAGGCGG	TCTTGGAATA	6600
TGCTCGCCGT	TTATCTGCCT	TGCAAAAGAA	GGTAGCGGAT	AAGATTTTCA	TGGTCATGCG	6660
CGTGTATACT	GCTAAGCCTC	GTACCAATGG	AGACGGCTAT	AAAGGATTAG	TTCACCAGCC	6720
AGATACTTCT	AAGGCTCCAA	GCCTGATTAA	TGGCTTGCAG	GCTGTGCGCC	AGTTGCACTA	6780
CCGCGTGATT	ACAGAGACTG	GTTTGACAAC	GGCAGATGAG	ATGCTTTATC	CGTCAAATCT	6840
GATCTTGGTG	GATGACTTGG	TCAGCTACCA	TGCCGTTGGA	GCTCGTTCTG	TGGAAGACCA	6900
AGAGCACCGC	TTTGTGGCTT	CTGGGATTGA	TGCACCAGTA	GGGATGAAAA	ATCCAACCTC	6960
AGGAAATTTG	GGTGTTATGT	TTAACGCCAT	CTATGCTGCT	CAAAACAAGC	AAACCTTCCT	7020
TTATCATGGG	CAGGAAGTTG	AGACATCAGG	TAATCCTTTG	GCCCATGTTA	TCCTCCGTGG	7080
AGCAGTCAAC	GAGTATGGCA	ATTATATGCC	GAATTACTAC	TATGAAAATC	TACTCCAAGC	7140
CATTGAACGC	TATGAAACCA	TGGGACTTGA	AAATCCTTTT	ATCCTCATTG	ACACCAACCA	7200
TGATAACTCA	GGCAAGCAAT	ATATGGAGCA	GATTCGAATT	GTTCGCCAGA	CCTTGCAGAA	7260
TCGTGATTGG	AATGAGAAAA	TTAAAAAGAC	GGTTCGAGGA	TTTATGATTG	AATCTTACCT	7320
AGCAGATGGT	CGTCAAAACC	AACCAGAGAT	CTTTGGTTGC	TCTATTACTG	ACCCTTGCCT	7380
AGGTTGGGAA	AATACAGAGG	CCTTGGTAGA	AGAGATTTAT	GTTACCTTGA	CAAAATAAGT	7440
GAAAAGGATG	GAGTTGGGGA	ATCTCAACTC	CTTTTGATGA	GAATGATAGT	TGGACACGGA	7500
ATTGACATCG	AAGAATTGGC	TTCGATAGAA	AGCGCAGTTA	CACGACATGA	AGGATTTGCT	7560
AAGCGTGTAC	TGACCGCTCA	GGAAATGGAG	CGCTTCACCA	GTCTCAAAGG	ACGCAGGCAA	7620
ATAGAATATT	TAGCTGGTCG	CTGGTCGGCT	AAGGAGGCCT	TTTCCAAGGC	TATGGGAACG	7680
GGCATTAGCA	AGCTCGGTTT	TCAGGATTTG	GAAGTCTTGA	ACAATGAACG	TGGGGCGCCT	7740
TATTTTAGTC	AGGCACCATT	TTCAGGAAAG	ATTTGGCTGT	CTATCAGCCA	CACCGATCAG	7800
TTTGTGACAG	CCAGTGTCAT	TTTGGAGGAA	AATCATGAAA	GCTAGTCCAC	ATAGACCAAC	7860
CAAGGCTCTG	ATTCATCTGG	GAGCTATTCG	ACAAAATATT	CAGCAAATGG	GGGCTCATAT	7920
CCCTCAAGGA	ACGCTCAAGT	TGGCTGTGGT	TAAGGCCAAT	GCTTATGGTC	ATGGAGCTGT	7980
TGCCGTTGCC	AAGGCAATTC	AAGATGATGT	TGATGGCTTT	TGCGTTTCCA	ATATCGATGA	8040

AGCCATTGAA	CTCAGACAAG	CTGGACTCAG	CAAGCCAATC	CTCATTTTAG	GAGTTTCTGA	8100
AATCGAAGCT	GTTGCTCTAG	CTAAAGAATA	TGACTTCACC	TTGACAGTGG	CTGGACTGGA	8160
GTGGATTCAA	GCACTCTTAG	ATAAGGAAGT	GGACCTAACT	GGATTGACAG	TCCACCTCAA	8220
GATTGATTCA	GGGATGGGAC	GGATTGGTTT	TAGAGAGGCA	AGTGAGGTTG	AGCAGGCTCA	8280
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TGATGAGGAA	TCAGATGACT	ATTTTAATGC	CCAGTTAGAA	CGGTTTAAAA	CTATTTTAGC	8400
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TGTAGAGACT	ATTTTCAATG	CGGTTCGTAT	GGGAGATGCC	ATGTATGGCC	TCAATCCAAG	8520
TGGAGCGGTC	TTGGATTTGC	CTTATGATTT	GATACCGGCC	TTGACCTTGG	AGTCTGCTCT	8580
GGTTCATGTC	AAGACAGTTC	CAGCTGGAGC	TTGCATGGGC	TATGGAGCAA	CTTATCAAGC	8640
GGATAGCGAG	CAAGTCATCG	CGACCGTGCC	AATCGGGTAT	GCAGATGGAT	GGACAAGAGA	8700
CATGCAAAAT	TTCTCTGTCT	TGGTAGATGG	CCAAGCTTGC	CCAATTGTCG	GCAGGGTTTC	8760
GATGGACCAA	ATCACTATTC	GATTGCCTAA	GCTTTATCCG	CTAGGAACCA	AGGTAACCTT	8820
GATTGGCTCC	AATGGGGATA	AGGAAATCAC	TGCAACTCAG	GTAGCGACCT	ACCGCGTAAC	8880
CATTAACTAT	GAGGTGGTTT	GCCTCCTCAG	CGACCGTATT	CCGAGAGAAT	ATTATTAGAA	8940
AAGAAAGGAG	TGGAGCATGA	ATCTACATCA	ACCCTTGCAT	GTCTTGCCTG	GTGTGGGACC	9000
AAAGTCAGCA	GAAAAATACG	CCAAACTAGG	AATTGAAAAC	TTGCAAGATC	TCTTGCTCTA	9060
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GAAGGCAGTT	CTTTCTGGTC	AGGTAGTGAC	TCCTGCTAGT	GTCCAGTATT	ATGGTTTCAA	9180
GCGCAATCGC	CTGCGTTTTA	GTCTCAAGCA	GGGAGAGGTC	GTTTTTGCGG	TGAATTTCTT	9240
TAACCAGCCC	TATCTGGCTG	ATAAAATAGA	GTTGGGAGCA	ACCCTTGCTG	TCTTTGGAAA	9300
ATGGGACCGC	GCTAAGGCTA	GTCTGACTGG	GATGAAGGTT	CTGGCTCAGG	TAGAAGATGA	9360
CCTCCAGCCT	GTCTATCGTC	TGGCTCAGGG	AATCAGTCAG	GCCAGTCTGG	TCAAGGTCAT	9420
CAAGACGGCT	TTTGATCAGG	GACTGGACCT	CTTGATAGAA	GAAAATCTGC	CCCAGTCTTT	9480
ACTAGACAAA	TACAAACTCA	TGTCCCGTTG	TCAGGCAGTC	CGTGCTATGC	ATTTTCCAAA	9540
GTATTTGGCA	GAATACAAGC	AGGCTCTTCG	CCGTATAAAG	TTTGAGGAAC	TCTTTTATTT	9600
CCAAATGCAG	CTGCAGATGC	TCAAGTCTGA	AAATAGAGTT	CAGGGAAGTG	GTCTGGTTCT	9660
GAATTGGTCT	CAGGAAAAAG	TGACAGCAGT	TAAAGTAAGT	CTTCCTTTTG	CCCTGACCCA	9720
AGCTCAGGAA	AAGAGTTTGC	AGGAAATTTT	AACTGATATG	AAGTCCGACC	ACCACATGAA	9780

			0.60			
TCGTCTCCTA	CAAGGGGATG	TGGGGAGTGG	962 AAAAACGGTA	GTCGCTGGCT	TGGCCATGTT	9840
TGCGGCAGTG	ACAGCAGGTT	ATCAGGCTGC	CCTAATGGTA	CCAACAGAAA	TCCTCGCAGA	9900
GCAACACTTT	GAGAGTTTAC	AGAACCTTTT	TCCCAATTTG	AAACTGGCTC	TCTTGACAGG	9960
TTCCTTGAAA	GCTGCAGAAA	AGAGAGAAGT	CTTGGAGACC	ATTGCCAAGG	GTGAGGCTGA	10020
TTTGATTATA	GGAACTCACG	CTCTGATACA	AGATGGGGTG	GAGTATGCTC	GTCTTGGTTT	10080
GATTATTATC	GATGAGCAGC	ACCGTTTTGG	TGTAGGGCAA	AGGCGTATTT	TACGGGAAAA	10140
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CACAGCCTTT	GGAGATATGG	ATGTTTCCAT	TATCGACCAG	ATGCCAGCAG	GTCGGAAGCC	10260
TATTGTGACG	CGCTGGATCA	AACATGAGCA	ACTACCTCAG	GTCTTGACTT	GGTTAGAGGG	10320
GGAAATTCAA	AAAGGTTCCC	AAGTCTATGT	CATCTCTCCT	TTGATTGAAG	AATCAGAAGC	10380
TCTAGATTTG	AAAAATGCCA	TTGCCTTATC	AGAGGAGTTG	ACGACTCATT	TTGCAGGCAA	10440
GGCAGAGGTG	GCTCTTCTAC	ATGGTAGGAT	GAAGAGTGAC	GAAAAAGACC	AGATCATGCA	10500
GGATTTCAAG	GAGAGAAAGA	CGGATATTCT	GGTTTCGACG	ACGGTTATTG	AGGTTGGGGT	10560
CAACGTTCCC	AATGCGACTG	TCATGATTAT	CATGGATGCC	GATCGCTTCG	GTCTCAGTCA	10620
ACTTCACCAG	CTTAGAGGTC	GTGTCGGTCG	GGGGGACAAG	CAGTCCTACG	CTGTTCTCGT	10680
TGCTAATCCC	AAGACGGATT	CTGGGAAAGA	CCGCATGCGT	ATCATGACAG	AAACGACCAA	10740
TGGATTTGTC	CTTGCGGAGG	AAGATTTGAA	AATGCGTGGT	TCTGGTGAGA	TTTTTGGAAC	10800
CAGACAGTCA	GGACTTCCAG	AGTTCCAAGT	GGCTGATATT	ATCGAAGATT	TTCCGATTTT	10860
AGAAGAAGCA	AGAAAGGTTG	CTAGCTACAT	TAGTTCTATA	GAAGCTTGGC	AAGAAGATCC	10920
AGAGTGGCGC	ATGATTGCCC	TTCATCTGGA	AAAGAAAGAA	CATCTGGATT	AAGCTTTCTC	10980
TAAGGAAAAC	TTATACTCAA	TGAAAATCAA	AGAGCAAACT	AGGAAGCTAA	CCGCAGGTTG	11040
CTCAAAACAC	TGTTTTGAGG	TTGTGGATGA	AACTGACGAA	GTCAGCTCAA	AACACCGTTT	11100
TGAGGTGGCA	GATAGAACTG	ACGAAGTCAG	TAACATATAT	ATACGGTAAG	GCGACGCTGA	11160
CGTGGTTTGA	AGAGATTTTC	GAAGAGTATT	AAGCTAGTTT	TTAGGTTTGG	CTCTTATACT	11220
AGAGTCATCA	AAAAGAAACG	AGGACTCTCA	TATGACAGTA	ACGATTAAAG	TAAATTACCA	11280
AACCACTTTC	CAAAAGAAGG	AAGCAAAAAA	CTAGTATAAA	CAGAAGAGAG	AGCGAAATGC	11340
TCTTTTTTCG	TTTCTAAAAC	TACTTTCAGC	CCATCATCCT	AAAAGTAAAG	AATCTAAATT	11400
CACTTTCTAT	TTACCCTTCT	TTCTTGCATT	GATTACATAG	ATATGCTACA	GTTGTGGTAA	11460
CGATTACAAA	ATAAAAGGAG	CATGCTATGA	AAAATCCAGC	TTTGCTAGAA	GAAATTAAGA	11520
CCTATAGAGG	AAGGGATGAG	GTTCCGGAAG	ACTTTGATGA	TTTCTGGGAT	GGGGAAGTGA	11580

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AAAATGTTTC	CACGCTTCCA	TCCTACCACT	TGGAGGAAAG	AGATTTCCAC	ATTCCTCAAG	11640
TCAAGTGCTA	TGAGTTAACA	TTTGAAGGAA	GCAAGGAAGG	AAAGGTCTAT	GCACGCATTG	11700
TTCTTCCAAA	GAGTGAGGAG	AAGGTCCCAT	TAATCTTCCA	TTTTCATGGT	TATATGGGAC	11760
GTGGCTGGGA	CTGGGCCGAC	ATGCTGGGCT	TCACCGTAGC	TGGTTACGGT	GTTGTTTCCA	11820
TGGATGTGCG	GGGCCAGTCA	GGTTACTCAC	AAGACGGCTT	GCGTTCTCCT	TTAGGAAATA	11880
CCGTGAAGGG	GCATATTATC	CGTGGTGCTG	TGGAAGGTCG	GGACCACCTC	TTTTATAAGG	11940
ATGTTTATCT	GGATATTTAC	CAGTTGGTCG	AAATTGTTGC	TAGTCTGTCT	CAGGTTGATG	12000
AGAAGCGTCT	TTCTAGCTAT	GGTGCCTCAC	AAGGAGGGC	TCTAGCTCTA	GTTGCAGCAG	12060
CGCTCAATCC	TCGAATTCAG	AAAACAGTTG	CCATTTATCC	CTTCTTGTCA	GACTTCAGAC	12120
GGGTGATTGA	GATTGGTAAT	ACTAGCGAGG	CTTACGACGA	ACTTTTCCGT	TATTTCAAGT	12180
TTCACGACCC	CTTCCATGAA	ACAGAGGAGG	AAATCATGGC	GACCCTTGCC	TATATCGATG	12240
TCAAAAATCT	TGCCCATCGT	ATCCAAGGTG	AGGTTAAGAT	GATTACGGGC	TTGGACGACG	12300
ATGTTTGCTA	TCCCATTACC	CAGTTTGCGA	TTTATAATCG	TCTGACCTGC	GATAAAACCT	12360
ATCGCATCAT	GCCTGAGTAT	GCTCACGAAG	CCATGAATGT	ATTTGTCAAT	GACCAAGTCT	12420
ACAACTGGCT	CTGTGGAAGT	GAGATTCCTT	TTAAATATCT	AAAATAAGGA	GTCGACTCTA	12480
AGCACAAAAT	СТТАААААТТ	ACAAACACGC	ATAGTATCAG	GGGATTAAGA	AAACTTTATA	12540
CTATGCGTTT	TATCATGGAA	ATATAGTAAA	ATGAAATAAG	AACAGGACAA	ATCGATCAGG	12600
ACAGTCAAAT	CGATTTCTAA	CAATGTTTTA	GAAACAAATG	TGTACTATTC	TAGTGTCAAT	12660
CTATTATATT	TATAGAATTT	TTTGTTGCTA	GATTTGTCAA	ATTGCTTAAA	ATAATTTTTT	12720
rcagaaagca	AAAGCCGATA	CCTATCGAGT	AGGGTAGTTC	TTGCTATCGT	CAGGCTTGTC	12780
FGTAGGTGTT	AATACTTTTC	AAAAATCTCT	TCAAACCACG	TCAGCTTCGC	CTTGC	12835

## (2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5020 base pairs
    (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGGATATGA AGAACAAAAG AATATTTAAA GACTTCCAAG CTTCAAAAAT GAGTTTAAAC 60 ATTTACACAA GCCCCTTGTT AGCCTTTGTT TTTGTCTTCA TAGGAGAGTT TGTGGCTTTT 120

964 ACTITGTATG GTATTGGCTT GTTAGCTCTC ATCGGACTTG CTAGAAATTT TGGAGAGGCT 180 GGTCAAAATC TTGCAAGCTA CTTGCAGACC TTGCATCAGA GCTTGACGGA TAAAACAAGT 240 GACTTTCGTT TAATTTTAGG ATTACTGGCC TTTGGTTATT CTTAACACTG TGTTCAGATG 300 GACAAGAAAA GTTGAGAAAA GACCTATTCG AACCTTGGGA TTTTATAGAG AGAATTTCCT 360 CAGCAATCTT CTGAAAGGAT TTAGTCTAGG CCTGGCACTT TTTCTTCTGA CCTTGTTAGG 420 TTTAGTGGTC TTAGGTCAAT ATCGTTTGGA ATCCATTCAC TTGAATCCTT ATTCTCTTGC 480 CTTTGTCGTC TTTACTATCC CATTTTGGAT TTTACAGGGG ACAGCAGAAG AAGTGGTGGC 540 CCGTGCTTGG CTACTTCCTC AATTGGCCTC AAGAACCAAT CTAAAACTAG CTATTCTTAT 600 ATCTAGCCTG TTCTTTACCC TGCTTCATAT GGGCAATTCT GGTCTCACCC CTCTATCTCT 660 AGTAAATCTC TTTTTATTCG GAGTTGCCAT GGCTCTTTAC CTTCTCAAAA CTGATACAGT 720 TTGGGGTGTT GCAGGTATTC ATGGTGCTTG GAATTTTGCT CAGGGTAATC TCTTTGGGAT 780 TTTAGTTAGT GGTCAACCGT CAGAACGTCT CTGATGACCT TTTTACCACA AGGCAATCAA 840 GATTGGCTAT CAGGTGGTTC TTTTGGCATA GAAGGTTCCA TTATGACAAG TCTGGTATTA 900 CTACTGCTGA TTGTCTATCT TGCTAATAAA TTAAAGAAAG AAAATGAAAG GATGTGACTT 960 CGGTCCGTCC TTTTCTTCGT GAAAATACTA TAAGTATGCT AAAATAGGAA TAGCACATGG 1020 AGAGAGGATT CTTATGATCA ATCACATTAC AGATAATCAA TTTAAACTAG TATCAAAATA 1080 TCAACCATCA GGAGATCAAC CCCAAGCTAT CGAGCAGTTG GTGGATAACA TTGAGGGGGG 1140 AGAAAAAGCT CAGATTCTGA TGGGGGCGAC TGGAACAGGG AAGACCTATA CTATGAGTCA 1200 GGTCATTTCT AAAGTCAATA AACCAACTCT GGTTATTGCC CACAATAAAA CTCTGGCTGG 1260 TCAGCTCTAT GGGGAGTTTA AGGAATTTTT CCCTGAAAAT GCAGTTGAGT ATTTCGTATC 1320 CTACTATGAT TATTACCAGC CAGAGGCCTA TGTCCCTTCT AGCGATACCT ATATTGAGAA 1380 GGATAGTTCT GTCAATGACG AGATTGACAA GCTTCGCCAC TCAGCTACCT CAGCCCTTTT 1440 GGAGCGTAAT GATGTTATTG TCGTGGCCTC AGTCTCTTGT ATCTATGGTT TGGGTTCGCC 1500 CAAGGAATAC GCTGATAGTG TCGTTAGTCT CCGTCCTGGT CTAGAGATTT CTCGTGATAA 1560 ACTCTTGAAT GACTTGGTCG ATATTCAGTT TGAACGTAAT GATATTGATT TCCAACGCGG 1620 AAGATTTCGC GTTCGTGGGG ATGTGGTAGA GATTTTCCCA GCTTCCCGAG ATGAACATGC 1680 CTTTCGAGTA GAATTTTTTG GAGACGAAAT TGACCGTATT CGTGAAGTTG AGGCTCTGAC 1740 AGGTCAGGTG TTGGGAGAAG TGGATCATTT AGCGATTTTC CCAGCGACAC ACTTTGTGAC 1800 CAATGACGAC CACATGGAAG TTGCCATTGC AAAGATTCAG GCCGAGTTGG AAGAACAATT 1860 AGCTGTCTTT GAAAAGGAAG GTAAACTGCT TGAAGCCCAG CGTTTGAAAC AGCGGACAGA 1920

GTATGATATC	GAAATGTTGC	GTGAGATGGG	CTATACCAAT	GGGGTTGAAA	ATTATTCTCG	1980
CCACATGGAT	GGACGGAGCG	AAGGAGAGCC	TCCTTATACG	CTTCTCGACT	TCTTCCCAGA	2040
TGATTTCTTG	ATTATGATTG	ACGAGAGTCA	TATGACCATA	GGGCAAATCA	AGGGCATGTA	2100
CAATGGAGAC	CGTTCGCGTA	AAGAAATGCT	GGTTAATTAT	GGTTTCCGTT	TGCCGTCTGC	2160
TTTGGACAAT	CGTCCTCTCC	GTCGGGAGGA	GTTTGAGAGT	CACGTTCATC	AGATTGTTTA	2220
CGTTTCAGCG	ACACCTGGTG	ACTATGAAAA	TGAACAGACC	GAGACAGTGA	TTGAGCAAAT	2280
CATTCGTCCA	ACGGGACTCT	TGGATCCAGA	GGTGGAAGTC	CGTCCGACTA	TGGGACAGAT	2340
TGATGACCTC	TTGGGTGAAA	TCAATGCCCG	CGTTGAAAAA	AATGAGCGTA	CCTTTATCAC	2400
AACTTTGACC	AAGAAAATGG	CAGAGGATTT	GACCGACTAC	TTCAAGGAAA	TGGGTATCAA	2460
GGTCAAGTAC	ATGCACTCGG	ATATCAAGAC	CTTGGAACGG	ACGGAGATTA	TCCGTGACCT	2520
GCGCTTGGGT	GTCTTTGATG	TCTTGGTCGG	AATTAACCTG	CTCCGTGAAG	GAATTGACGT	2580
TCCTGAAGTG	AGCCTCGTAG	CTATTCTCGA	TGCTGACAAG	GAAGGTTTCC	TTCGCAACGA	2640
ACGTGGACTC	ATCCAGACCA	TTGGACGTGC	TGCACGTAAT	AGCGAAGGTC	ATGTTATCAT	2700
GTATGCGGAC	ACGGTTACCC	AGTCTATGCA	ACGTGCTATC	GATGAAACTG	CCCGCCGTCG	2760
CAAAATCCAG	ATGGCCTATA	ATGAAGAACA	TGGTATCGTT	CCACAAACCA	TCAAGAAAGA	2820
AATCCGTGAC	TTGATTGCTG	TGACCAAGGC	AGTTGCTAAG	GAAGAAGACA	AGGAAGTCGA	2880
TATCAATAGC	CTCAACAAAC	AAGAGCGCAA	AGAACTAGTC	AAAAAGCTTG	AGAAACAAAT	2940
GCAAGAAGCA	GTTGAAGTGC	TTGACTTTGA	ACTAGCAGCT	CAGATTCGTG	ATATGATGCT	3000
GGAAGTCAAG	GCCTTGGATT	AGGGGAATAG	TATGATTTAT	TTAAGAAAGT	TAAAGAAAGA	3060
AGATTTGATG	TCTTTATGGG	AAATGGCTTA	TTCACAGCTT	AATCCAGTTT	GGAAACAGTA	3120
TGATGCTCCC	TATTATGATG	ATTATCAGTA	TTTTTCAAAT	TTTAAAGAAT	TCGAACTACA	3180
AAAATCAGAA	TCCATTTTAA	GCAACTCAAA	TCGCCTTGGT	ATTTTTGTTG	ATGATAAACT	3240
AGTTGGGACT	GTTTCGCGTT	ATTGGGTATG	TAAAGAAACA	AGATGGATGG	AATTGGGAAT	3300
TGGTATTTAT	GATAAAAAAT	TCTGGAACAC	TGGTATTGGG	AAAGTTGCTA	TGTTGCAGTG	3360
GATAGATAGG	ACGTTTCAGG	ATTACTTGGA	GTTGGAGCAT	CTGGGTTTGA	CAACTTGGTC	3420
AGGAAATATT	GGTATGATGA	AACTTGCTGA	AAAATTAAGA	ATGAAAAAAG	AAGCTCATAT	3480
TCCAAAAGTT	CGTTATTATC	AAGGTAAATA	TTTTGACAGT	ATTAAATATG	GTATTTTGAG	3540
AGAAGACTGG	GAGAAAATAA	ATGACGGTTA	TTATCAAATC	AATGGAAACT	CCTGAAGAGA	3600
TAGAAGGTAA	ATCCTTCGTT	CACTGGCAAA	CGTGGAGAGA	GGCTTATGAT	GACCTTTTGC	3660

CTGCGGAATT	TCAGGAGACA	ATGACATTAG	966 AAAGATGTCG	ACTCTTTAGT	CAAAAGTATC	3720
CAGAAAATAC	ATTGATTGCG	ATGGATGGTG	TGAAGATAGT	TGGTTTTATA	AGTTATGGCA	3780
ACTGTCGTGA	TGAGACTATT	CAAGCTGGTG	AAATTATTGC	TTTATATGTT	TTAAAAGACT	3840
ATTATGGAAA	AGGAATCGCA	CAAAAGTTAG	TGAAAGCAGC	TTTGACTGAT	CTTAATCATT	3900
TTTCTGAAAT	TTTCTTATGG	GTATTGAAAG	ATAACAAGCG	CGCCATTGCT	TTCTATCAAA	3960
AAATGGGTTT	TACTTTTGAT	GGACAAGAAA	AAATACTTGA	ACTTGGAAAG	CCTATAAAGG	4020
AAAAACGGAT	GGTATTCTAT	TCTAAATAAT	TCTCAAAAGT	AAAAGCTAAT	ATGGTACCAA	4080
GTCTGAAAAT	TTAATAAATT	AGAAAGCGAG	TAAATTTATG	TCCCGTTCCC	AATTAACAAT	4140
TTTAACAAAT	ATCTGTCTGA	TTGAAGACCT	CGAAACTCAG	CGCGTGGTGA	TGCAGTATCG	4200
CGCCCCTGAA	AACAATCGCT	GGTCTGGTTA	TGCCTTTCCT	GGAGGTCATG	TAGAAAATGA	4260
TGAGGCTTTT	GCGGAGTCTG	TCATTCGTGA	AATCTACGAA	GAAACAGGGT	TGACTATCCA	4320
AAATCCTCAA	CTTGTCGGCA	TTAAAAATTG	GCCACTAGAT	ACAGGTGGGC	GCTATATTGT	4380
CATTTGTTAT	AAGGCGACTG	AGTTCTCTGG	TACCCTTCAA	TCTTCAGAAG	AGGGAGAAGT	4440
TTCTTGGGTG	CAAAAAGACC	AGATTCCAAA	CTTAAATCTG	GCCTATGATA	TGCTACCATT	4500
GATGGAAATG	ATGGAAGCTC	CCGACAAGTC	AGAGTTTTTC	TACCCTCGCC	GTACAGAAGA	4560
CGATTGGGAA	AAGAAAATCT	TCTAGTCTTT	TACTAAATAA	CCTAGCTGAT	CCAAGGCCTC	4620
CTCGATATAG	TGGAGGTCTT	GTTGTGTCTC	GGCTTCAACT	AGGTGATAAT	GAATACCATC	4680
TGTTAACTCA	GAAATTGGCT	TAAAGTCAGA	ACGTTCAACT	TGTTCTAGAA	AATGTTGCAC	4740
GTCGCGGCGA	CAGGTCAGTT	TTAGTAAGGT	TTCAATCTCT	CCATAAACAG	GATGATCAAT	4800
CAAGATATTT	TGAACGCGAC	CACCATTATC	TACGATAGCA	AGTAATTCTC	GTCCAATTTC	4860
TTCAACTTCA	TGCTTGACCT	ТАААТААТТТ	GTGATGATAA	GTATTTGCAT	TAGCATCTTT	4920
ATAGATATAA	CCACGATTGG	TAGATAGAAT	TGGAGATCCA	TCAGCTCTTA	AAATTGCAAT	4980
ATCTTGAACA	ATAACTTGTC	GAGTGACATG	AAAGTGCTCA			5020

- (2) INFORMATION FOR SEQ ID NO: 143:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4965 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

AAAAAGTGGC AATCCATTGA TTGGCCACTT CATTTAGAGA ATTATCGTCT CGCCCTTGAA 60

GAAGAAGGTC	GTGTAGTACT	TGAGTTACTG	CTATCGCTAG	AACTACTACT	TGAACTGCTG	120
GAGCTGGATG	GAGTTGGTAG	ACTCCCCACA	ATACTAGACC	AAGCATTCTG	ATAATCCGCA	180
TCACTTCCGC	CAATAGCAAA	GCGATAACTT	GTCGCTGGCG	CTCCTGACTT	ATTAGCCCAA	240
TAGCTGGTAA	CAGTCGAACC	TGTGACCTCT	ACTTCTTTTC	CTTCAACAGA	AACCTTCTCT	300
GGTTTTTGAC	CTGTTGATTT	CAAGACTTCC	GATTTCACTA	CACTAGGATC	TAAAGCAAAG	360
CGCTCGTTCC	CCCAAATGCT	TGGGGAAGCT	TGCTGAATCG	CATTTACCAG	ATGAGCCATG	420
TAATTAGAGT	TATTAGAATA	ACCTGCTCTA	CGTGACAATG	AATGATTATC	ATCATGCCCA	480
ATCCAGCCAC	CTAGGGTTAA	TCTAGGTGTC	GAAAGCATGA	GCCACATATT	TTCGTCTTGG	540
TTGGTTGTAC	CAGTCTTCCC	AATCCAATCT	GCATTAGCCA	GAGTAGGATT	TAAAGAAGTC	600
AGGTTAGACT	TGAAGGTTGT	TGTCACACGA	GAGGATAGAA	CTTCTCGTAG	CAATCCCTGC	660
ATAATCGTCG	CAGTAGCTTT	TGAATAGACT	TGAACCGGTT	TATCCTGATA	CTCATACACC	720
ACTCTACCAT	CTGCTGCTTC	AATCTTTGAA	ATCACATGCT	TCTGATGATA	AACTCCATTA	780
TTAGCTAAGG	TCTGATAGCC	ATTGGTATGC	TGGGCAACTG	TGACTTCAAT	ACCACCACCC	840
ATTGGCAAGC	TCTCAATACC	GTACTCAGGA	ATCTCGTAAC	CCATCTTTTC	CATATAACCC	900
TTGACATCAA	CACCCTTTTC	ACGGAGCATA	CGATAGGTCC	AGTAAGCAGG	GATATTCCAT	960
GAATAGTTCA	GAGCTTCTCC	CAAGGTCATC	ATTCCTGTTC	CCTTGCTATT	AGCATACATA	1020
ATCGGATTGC	CATTAGCAAA	GTTTGTTGGA	TAGTTAGATA	GAATCGTTTC	ACTTCCCATC	1080
AAGCCCTGGT	CAATAGCAAT	ACCGTAGGCC	AGCAAGGGCT	TGGTAGTAGA	AGCTGGCGAA	1140
CGTTTGGTAT	CAAAGGCATG	ATTATTTTGA	TTTTCTTGAT	AATTACGACC	ACCTACAAAG	1200
CCTAGAATAG	CACCTGTTTG	GTTATCCATC	AAGACATTCC	CTACTTCTAC	ACGACCTGTT	1260
CCATCGTCTA	AAAGATAGCC	ATAATCAGCA	ACCGCACTTT	GCATGGCAGA	ATGAATTTTC	1320
TGATCTATGG	TAGTAGTAAT	CTTATAACCA	CCATTTTCAA	TTTCCTTGGC	TGCCAAATCT	1380
CGATAAAACT	TCTGAGTTGC	CTCATTTTC	AACTCCTTAG	CGGAGACATT	GTCTCTCTGA	1440
GCTAGATAGT	CATACATACG	TTCTTGAGCT	TCTGCCAAAG	TTGTAAAGTA	TAAATAGTCT	1500
CGTGAAATTC	CTGTAACCGT	GCCCGATGGT	AAAAAGTCCT	GTTTAAGGTC	ATAATCCTTG	1560
TACTGAGAAT	ACTCGTCTTT	GCTTAATGCA	CCTGTACGAT	ACATACTGTA	AAGAACTGCC	1620
TTAGCCCGTC	TTAAGCCAAT	TTCTAGGTCT	TCATCACTCT	TCAACTCCCC	AGTATTTTCA	1680
TAAGGAGAGT	AAGTAATGGG	ACTCTGTGGA	AGTCCTGCTA	AAAATGCTGC	TTGAGGAACA	1740
GTCAACTGAC	TGGCATCTAC	ACCGAAAATT	CCCTCAGCTG	CTTGCCGAGC	CCCTGCAATA	1800

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TTCTGTCCCT TATTATTTCG GCCAAAGGGA GCCACATTGA GATAGGTCGT TAAAATCTCA 1860 TCTTTATTCA TGGCGCGTTC CAAGGCAAGA GCATCCACAA TCTCTGCCGC CTTACGAGCC 1920 AAGGTCGGCG CATCCCCAAC CACCTGCTGT TTAATTAGTT GCTGGGTCAA GGTTGAACCC 1980 CCACTAGAGG AACCCAAACC TACAAATTTC CCCAAGGTCG CACGAATCAC CGCCTTGGGT 2040 ACTACACCCT TATGTTCTTT AAAGTGTTCA TCTTCTGTCG CAATGATAGC CTTCTTCAGA 2100 TTTTCCGAAA TTTGCTCAGA TGAGATAGAA GTGCGCAACA AATCACTCTC TATGGAAGCA 2160 ATCACCGTCC CGTCCGAATA GGTAATCTCT GAAATAGAAG AGATGTCCTT GACCTGATTC 2220 ACCAATTCTT CTGTCTGAGG CACCCGAACC TTGTCAAATA AGGCCACTCC GTATCCCAAA 2280 GCAATCCCAG CTCCCAACAT TCCTCCTAGA AAACCGAGTA CAAAGAGTAA GTTAAATAAG 2340 GCTTTTATAC TCAGTAAAAT AGCTGGGAAA ATGACTGACT TATCTAAGGT TTTAGATTTT 2400 TTGGTACTTG AACCTTTCTT GCCAGGTCTA GCTGATTTTT TATTTTTTTT TTTTTTGCTGG 2460 AAAAATTCCA GCATTTTTCG TTTTAATTCA TTTAATTGAT TTTGCATGGA TTTCCTCACT 2520 TTATCTATTA TACCACAAAA GGGAAATTTT CAATAAAATA GCCACTTTCT TCCCTATTCT 2580 GCTAGGCTAT TGCCCAAGTT TGTGATACAA TAGGTAGAAA CAATAATTTT AAAAAGGAGA 2640 AAAAACACAT GCACATTTTT GATGAGCTAA AAGAGCGTGG TTTGATATTT CAAACGACTG 2700 ATGAAGAAGC TTTGCGTAAA GCCCTAGAAG AAGGTCAAGT TTCTTATTAT ACTGGCTACG 2760 ATCCAACTGC TGACAGCCTT CACCTAGGCC ACCTTGTCGC AATCTTGACA AGTCGTCGCT 2820 TGCAACTAGC AGGTCACAAA CCTTATGCGC TCGTTGGCGG TGCTACAGGT CTCATCGGAG 2880 ATCCGTCCTT CAAAGATGCT GAACGTAGTC TCCAAACAAA AGACACAGTA GATGGCTGGG 2940 TCAAGTCTAT CCAAGGACAA CTTTCTCGTT TTCTTGACTT TGAAAATGGC GAAAACAAGG 3000 CTGTCATGGT CAACAACTAC GACTGGTTTG GCAGCATCAG CTTCATTGAC TTCCTCCGTG 3060 ATATTGGAAA ATACTTCACG GTCAACTACA TGATGAGTAA GGAATCTGTT AAAAAACGGA 3120 TCGAAACAGG AATTTCTTAC ACTGAGTTCG CTTACCAAAT CATGCAAGGG TATGACTTCT 3180 TCGTCCTTAA CCAAGACCAT AATGTCACTC TTCAAATCGG TGGTTCTGAC CAGTGGGGAA 3240 ATATGACAGC TGGTACCGAA TTGCTTCGTC GTAAGGCGGA CAAGACTGGT CACGTTATCA 3300 CTGTTCCACT AATCACAGAT GCAACTGGTA AGAAATTTGG TAAATCAGAA GGAAATGCCG 3360 TCTGGCTCAA TCCCGAAAAG ACTTCTCCAT ACGAAATGTA CCAATTCTGG ATGAACGTGA 3420 TGGACGCTGA CGCTGTTCGC TTCTTGAAAA TCTTTACTTT CTTGTCACTT GATGAGATTG 3480 AAGATATTCG TAAACAATTT GAAGCAGCGC CACACGAACG CTTGGCTCAA AAAGTCTTGG 3540 CTCGTGAAGT TGTTACACTT GTTCACGGAG AAGAAGCCTA CAAAGAAGCA CTTAACATCA 3600

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CTGAGCAACT CTTTGCAGGA	AACATCAAAA	ACCTTTCTGT	CAAAGAGCTC	AAACAAGGAC	3660
TTCGTGGTGT GCCCAACTAC	CAAGTACAGG	CAGACGAAAA	CAACAATATC	GTGGAACTGC	3720
TCGTCTCATC TGGTATAGTT	AACTCAAAAC	GCCAAGCCCG	TGAAGACGTC	CAAAACGGAG	3780
CCATCTACGT AAACGGCGAC	CGCATCCAAG	AGCTTGACTA	TGTCTTGAGT	GACGCTGATA	3840
AGTTAGAGAA TGAACTGACT	GTTATCCGTC	GTGGGAAGAA	AAAATACTTT	GTATTGACTT	3900
ACTAAACTAT TCAACATTTA	TCTATAAACA	AAGGAGTTAA	CCTCGAGAAA	GGTAACTCCT	3960
TTTTGCTGTT AATAACTCTC	ATCTATCTAT	TTTTAATAGA	CAGGCTACGC	AGGACAATGC	4020
GCAAGGTTGT TAGATTATGT	AAGATAGAGA	GATTTGAAGG	ACTGAACCAA	TTAAATAAGC	4080
CAAAGCCAAT CAAACTACTA	TTTACGACAA	CGGTATCCTG	AATATTTTTC	TTGATGAGTG	4140
TTTGCAAAGA TGATGATAAC	GAATCCAACT	CTTGGAAGAA	ATCCAAACGA	TTATCTAACA	4200
ATAAGATATC ACTCATCTGC	TTAGAAATAT	CTGCACTCTC	ATTCATCACC	ACACCGATAT	4260
CTGATAGAGT TAAAGCCGCT	GAGTCATTCA	ATCCATCTCC	AACCATCAAA	ATAGTGTGAC	4320
CTGCTTTCTG CAGTTTCTCT	ACTAACTCAA	ATTTCCCATC	AGGTTTCAAG	TCTGTATAGA	4380
CCTGATCAAA GGGCAAATCT	TTGACTAATT	CCTCTGTCCT	AATCAAGGTG	TCTCCTGTTG	4440
CCAGAATCAA TTTTTTCCCC	TGTGCCTTAA	GTTTATCCAA	GGCTGTTTTT	GCTTCTTTTC	4500
TCAAAGGAGT ATGAATGCAG	AACATTCCAA	TCAATTCATT	TTGATAAGCC	AAGAATAAGA	4560
GATTGTAGTG ACTCTTGTAC	TCTTCAATTA	AAGCATTTTG	TTCTGAACTG	ATATGAATCT	4620
GCTCATCCTG CATCAAGACA	TAATTCCCAA	TAAGAACTGG	TTGGCCATCT	ATATGAGATT	4680
TGATCCCCTT GCTTGCGATA	TATTGGAGTT	TCCCATGCAT	TTCCTCATGT	TCAATTCCCT	4740
CTATCTCAGC TTGCTTGACG	ATGGCATTAG	CAATAGGATG	ATAAATGTGT	TCCTCAAGAC	4800
AGGCACTGAT TCTGAGAATA	TCTTCCTCAC	TATAGTCTCC	AAAAGGTAAC	ACCTTTTCAA	4860
CTATAGGATA ACTAGTTGTG	ATTGTTCCTG	TCTTATCAAA	CAAGAAAGTA	TCAACTTCCA	4920
GATATTTCTC CCTGTTGTGG	CCTCTGGCTG	TCATCTCTGT	GCTGG		4965

### (2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 3232 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

			970			
CAGGGGCGTA	TTACGTGACA	ATTCAATGTA	GGCTGTCGCT	ACTTGCGCCA	AAACAAGGAT	60
TCGATAATGT	CGGATGATAC	TAACGATTAA	ACCGAGCAGA	AAGGATCCCA	AAATTCCCCA	120
AACTGCAATA	TGCAAGGTCA	GAAAGAATGC	CTTTTGATAT	AGTGGTAGAT	ATTGTTCAAC	180
AATGGATCAA	TCCAAAAATA	GAACCTCCCA	TCTAGAAATA	ATACAGTTAT	TGTAGCACTT	240
AAAATCTTCT	TTGGATAATA	TCTATTTTTT	ATTGCCGTTA	TAAGGATTTT	TATCATAGAC	300
ATAAAATTTC	TGAAATTTCC	АААСААААТА	TTTTAAAAGT	TTTGAAAAAG	AGTTAAGATA	360
TTTTTGTAAT	ACACAAAGTA	AACGCTTACT	TATTAAGGAG	GACATTTTAT	GTCATACAAA	420
ACAAGCAATG	CAGAAGGTCA	TGTAGATTTC	ATCAATACCT	ATGATTTGGA	GCCAATGGCG	480
CAACAAGTTA	TTCCTAAAGC	AGCATTTGGC	TATATCGCTA	GTGGGGCGGG	AGATACTTTC	540
ACTTCTTTCC	AGTGATTTTA	GCGTCAGGTT	CTTTTTAGTT	TTTAAAGATT	ATCCGTGAAT	600
TTCTTGCTTA	TTTATGATAA	AATGGGAGTG	TCGCAAAAAA	TGACTCATCG	TATTCAATTT	660
TGAGTAAAAC	TAGGAGGATC	CCATGTCTAC	AGAACATATG	GAAGAACTAA	ATGACCAGCA	720
GATCGTTCGC	CGTGAAAAA	TGGCTGCGCT	CCGCGAACAA	GGAATCGATC	CTTTCGGAAA	780
ACGTTTTGAA	CGTACTGCAA	ATTCACAAGA	ATTAAAAGAT	AAATATGCCA	ACCTCGATAA	840
AGAACAATTA	CACGATAAAA	ACGAAACAGC	TACTATCGCA	GGACGCTTGA	TAACCAAACG	900
TGGTAAAGGA	AAAGTTGGTT	TTGCCCACCT	TCAAGACCGC	GAAGGCCAGA	TTCAGATCTA	960
CGTTCGTAAG	GATGCTGTCG	GTGAAGAAAA	CTACGAAATC	TTCAAAAAAG	CAGACCTTGG	1020
TGACTTCCTT	GGTGTCGAAG	GTGAAGTGAT	GCGTACGGAT	ATGGGAGAAC	TCTCTATCAA	1080
GGCAACCCAC	ATCACACACT	TGTCTAAGGC	TCTTCGTCCT	CTTCCTGAGA	AATTCCATGG	1140
TTTGACAGAC	GTTGAAACAA	TTTACCGTAA	ACGTTACCTT	GACTTGATTT	CTAATCGTGA	1200
AAGCTTTGAA	CGCTTTGTCA	CTCGTTCAAA	AATCATCTCT	GAAATCCGTC	GTTACCTTGA	1260
CCAAAAAGGA	TTCCTTGAAG	TGGAAACACC	TGTTCTTCAT	AATGAAGCCG	GTGGTGCTGC	1320
TGCCCGTCCA	TTTATCACCC	ACCACAATGC	CCAAAACATT	GACATGGTGC	TTCGTATCGC	1380
GACTGAGCTT	CACTTAAAAC	GCCTTATCGT	GGGTGGTATG	GAACGTGTCT	ATGAAATTGG	1440
CCGTATCTTC	CGTAACGAAG	GAATGGACGC	TACTCATAAC	CCTGAGTTCA	CTTCTATCGA	1500
AGTTTACCAA	GCTTATGCAG	ACTTCCAAGA	CATCATGGAC	TTGACTGAAG	GCATTATCCA	1560
ACACGCTGCT	AAATCAGTCA	AAGGTGATGG	CCCAGTCAAC	TACCAAGGTA	CTGAAATCAA	1620
GATTAACGAA	CCATTTAAGC	GTGTTCATAT	GGTGGATGCT	ATCAGAGAAA	TTACTGGTGT	1680
CGATTTCTGG	CAAGACATGA	CTTTGGAAGA	AGCTAAAGCT	ATCGCTGCTG	AGAAGAAAGT	1740
TCCAGTTGAG	AAACACTACA	CTGAGGTTGG	TCACATCATC	AATGCCTTCT	TTGAAGAGTT	1800

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TGTTGAAGAA	ACTTTAATCC	AACCAACCTT	TGTCTATGGA	CATCCAGTAG	CTGTATCTCC	1860
ACTCGCTAAG	AAAAATCCTG	AAGACCAACG	CTTTACTGAC	CGTTTCGAGC	TCTTTATCAT	1920
GACTAAGGAG	TACGGTAATG	CCTTTACTGA	GTTGAACGAC	CCAATCGACC	AACTTAGCCG	1980
TTTTGAAGCC	CAAGCTAAAG	CCAAAGAACT	TGGTGATGAT	GAAGCGACAG	GAATCGACTA	2040
TGACTACATT	GAAGCTCTTG	AATACGGTAT	GCCACCAACA	GGTGGTTTGG	GAATCGGTAT	2100
CGACCGTCTC	TGCATGCTCC	TCACTGATAC	AACAACTATC	CGTGATGTAT	TGCTCTTCCC	2160
AACAATGAAA	TAAATTCTTA	TCCTCTGGGT	CTTATCAGAG	GATTTTTTGA	TTCAAAAAGA	2220
GACTGAATTT	AAGGAGAAAA	TGAAGTGTAG	TATATTGAAA	TTGAAATAGT	ACACTTTGAT	2280
TTCTAAGACA	TTGTTAGAAA	TTGGTTTAAA	TTCCCTAAGC	AATTTGTGCA	TGTTTTATTT	2340
CATTTTACGA	TAGTACGCTG	AAACTTTTCA	AAAAGTACTA	GAAATTGACT	TGGATTCCCC	2400
AATTGATTTG	TTCAGATTCA	СТАТАААТАА	AAAATTAATA	AGTGGGATAG	GAAGTTAGCG	2460
TCAACTAGGA	TAGTATCTTG	CTTAAACAGT	ATATATGGGA	TTGATATAAG	TCCATAGGTC	2520
CTATTAGAGG	ATGTTCTGGT	GTCTTATTCA	CTTGTTTTTT	ATAGTATTAG	TAGATAGAAT	2580
CAGCAAATAA	AAACCCAAAT	CATTCATACC	TCTCTCAACT	AGATGTAACT	TACAAAACCC	2640
CTGACCTCAT	GAGCCACTTT	CTTCCTCCTC	ATGAGGTCAG	TTTTACTTTC	TGCTGTTCCA	2700
GTATCGTTTT	TCCTCGCTAG	ATTTCCTCAA	AAGGCCAGAC	TCCTCCCTTG	GTGCGTCACA	2760
CGATTTTTTC	ATCTCGACTG	TTCTTTAATG	CATCATTAAC	GACGCTTTTC	TTCTAGGTGG	2820
TTCATAAGGA	ACAGGAAGAT	TCAGGTTGAC	TTTTCTAATC	CTAGAATAAA	GTGCTGAAAA	2880
CAATTCGGAA	TAGGCATAGA	GACTAGACAA	TTTGAGGAGC	TGCTTGCGTC	CTGTTCGAAC	2940
ACATTTTCCC	ACCACGTGAA	GAAAAGATG	GCGGAAGCGT	TTGATTGTTA	AAGTTTGGAA	3000
GTCACCTCCA	GCTAGATGTT	TGAGAAAAAG	ATAGAGATTG	TAGGCGATAC	AGCTCATCAT	3060
CATACGAACT	TCGTTTTTGA	TTAAGGTTGA	ACTATCCGTT	TTATCGCCAA	AAAATCCCTC	3120
CTTCATCTCC	TTGATGAAAT	TCTCGGCTTG	ACCACGTCCA	CGATAAAGCT	GAAACTGGTC	3180
TTGGCTTGTT	CCACTCGTCA	TATTTGTAAC	GAGAGAAATA	ACATCGTAGA	AC	3232

# (2) INFORMATION FOR SEQ ID NO: 145:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 10711 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

(/	DECORIGE DE	Denti I I I I I I	DEQ ID NO.	145.		
CCGGAGAAAA	TGATGAAAAG	TTCAAAACTA	TTTGCCCTTG	CGGGCGTGAC	ATTATTGGCG	60
GCGACTACTT	TAGCTGCATG	CTCTGGATCA	GGTTCAAGCA	CTAAAGGTGA	GAAGACATTC	120
TCATACATTT	ATGAGACAGA	CCCTGATAAC	СТСААСТАТТ	TGACAACTGC	TAAGGCTGCG	180
ACACAAATAT	TACCAGTAAC	GTGGTTGATG	GTTTGCTAGA	AAATGATCGC	TACGGGAACT	240
TTGTGCCGTC	TATGGCTGAG	GATTGGTCTG	TATCCAAGGA	TGGATTGACT	TACACTTATA	300
CTATCCGTAA	GGATGCAAAA	TGGTATACTT	CTGAAGGTGA	AGAATACGCG	GCAGTCAAAG	360
CTCAAGACTT	TGTAACAGGA	TTAAAATATG	CTGCTGATAA	AAAATCAGAT	GCTCTTTACC	420
TTGTTCAAGA	АТСААТСААА	GGGTTGGATG	CCTATGTAAA	AGGGGAAATC	AAAGATTTCT	480
CACAAGTAGG	AATTAAGGCT	CTGGATGAAC	AGACAGTTCA	GTACACTTTG	AACAAACCAG	540
AAAGCTTCTG	GAATTCTAAG	ACAACCATGG	GTGTGCTTGC	GCCAGTTAAT	GAAGAGTTTT	600
TGAATTCAAA	AGGAGATGAT	TTTGCCAAAG	CTACGGATCC	AAGTAGTCTC	TTGTATAACG	660
GTCCTTATTT	GTTGAAATCC	ATTGTGACCA	AATCCTCTGT	TGAATTTGCG	AAAAATCCGA	720
ACTACTGGGA	TAAGGACAAT	GTGCATGTTG	ACAAAGTTAA	ATTGTCATTC	TGGGATGGTC	780
AAGATACCAG	CAAACCTGCA	GAAAACTTTA	AAGATGGTAG	CCTTACAGCA	GCTCGTCTCT	840
ATCCAACAAG	TGCAAGTTTC	GCAGAACTTG	AGAAGAGTAT	GAAGGACAAT	ATTGTCTATA	900
CTCAACAAGA	CTCTATTACG	TATCTAGTTG	GTACAAATAT	TGACCGTCAG	TCCTATAAAT	960
ACACATCTAA	GACCAGCGAC	GAACAAAAGG	CATCGACTAA	AAAGGCTCTC	TTAAACAAGG	1020
ATTTCCGTCA	GGCTATTGCC	TTTGGATTTG	ACCGTACAGC	CTATGCCTCT	CAGTTGAATG	1080
GACAAACTGG	AGCAAGTAAA	ATCTTGCGTA	ATCTCTTTGT	GCCACCAACA	TTTGTTCAAG	1140
CAGATGGTAA	AAACTTTGGC	GATATGGTCA	AAGAGAAATT	GGTCACTTAT	GGGGATGAAT	1200
GGAAGGATGT	TAATCTTGCA	GATTCTCAGG	ATGGTCTTTA	CAATCCAGAA	AAAGCCAAGG	1260
CTGAATTTGC	TAAAGCTAAA	TCAGCCTTAC	AAGCAGAAGG	AGTCCAATTC	CCAATTCATT	1320
TGGATATGCC	AGTTGACCAA	ACAGCAACTA	CAAAAGTTCA	GCGCGTCCAA	TCTATGAAAC	1380
AATCCTTGGA	AGCAACTTTA	GGAGCTGATA	ATGTCATTAT	TGATATTCAA	CAACTACAAA	1440
AAGACGAAGT	AAACAATATT	ACATATTTTG	CTGAAAATGC	TGCTGGCGAA	GACTGGGATT	1500
TATCAGATAA	TGTCGGTTGG	GGTCCAGACT	TTGCCGATCC	ATCAACCTAC	CTTGATATTA	1560
TCAAACCTTC	TGTAGGAGAA	AGTACTAAAA	CATATTTAGG	GTTTGACTCA	GGGGAAGATA	1620
ATGTAGCTGC	TAAAAAAGTA	GGTCTATATG	ACTACGAAAA	ATTGGTTACT	GAGGCTGGTG	1680
ATGAGACTAC	AGATGTTGCT	AAACGCTATG	ATAAATACGC	TGCAGCCCAA	GCTTGGTTGA	1740

CAGATAGTGC	TTTGATTATT	CCAACTACAT	CTCGTACAGG	GCGTCCAATC	TTGTCTAAGA	1800
TGGTACCATT	TACAATACCA	TTTGCATTGT	CAGGAAATAA	AGGTACAAGT	GAACCAGTCT	1860
TGTATAAATA	CTTGGAACTT	CAAGACAAGG	CAGTCACTGT	AGATGAATAC	CAAAAAGCTC	1920
AGGAAAAATG	GATGAAAGAA	AAAGAAGAGT	СТААТААААА	GGCTCAAGAA	GATCTCGCAA	1980
AACATGTGAA	ATAACTGTTG	СААААТАТАА	GAAAGGATTT	AGTATTTCCC	TTGAATGCTG	2040
AATCCTTTTT	TACATTTGTA	AAGAAAGATT	CTAAAATGTA	CGGACCCCCA	AAAGTTGGAG	2100
CCTCTTTTTG	TCAGAATAGA	GAAAATTTTT	GTTAATTTTA	CTTGTTTCCT	ATTGCTTTCT	2160
CAGCTATTAT	TTGTTATATT	AAAAGTATAA	TTATTTTTTA	TTTATCAGAG	TTAAGCATTG	2220
CACTTTCAGA	GGAAGGAGTA	ТТТТТТАААА	AGAAAATGTA	AACGTTTGCT	CAAAAATGAA	2280
AGGATTTAGA	AGTTTATGAA	TAAAGGATTA	TTTGAAAAAC	GTTGTAAATA	TAGTATTCGG	2340
AAATTTTCAT	TAGGTGTTGC	TTCTGTTATG	ATTGGAGCTG	CATTCTTTGG	GACAAGTCCG	2400
GTTCTTGCAG	ATAGCGTGCA	GTCTGGTTCC	ACGGCGAACT	TACCAGCTGA	TTTAGCTACT	2460
GCTCTTGCAA	CAGCAAAAGA	GAATGATGGG	CGTGATTTTG	AAGCGCCTAA	GGTGGGAGAA	2520
GACCAAGGTT	CTCCAGAAGT	TACAGATGGA	CCTAAGACAG	AAGAAGAACT	ATTAGCACTT	2580
GAAAAAGAAA	AACCGGCTGA	AGAAAAACCA	AAAGAGGATA	AACCTGCAGC	TGCTAAACCT	2640
GAAACACCTA	AGACGGTAAC	CCCTGAATGG	CAAACGGTAG	CGAATAAAGA	GCAACAGGGA	2700
ACAGTCACTA	TCCGAGAAGA	AAAAGGTGTC	CGCTACAACC	AACTATCCTC	AACTGCTCAA	2760
AATGATAACG	CAGGCAAACC	AGCCCTGTTT	GAAAAGAAGG	GCTTGACCGT	TGATGCCAAT	2820
GGAAATGCAA	CTGTTGATTT	AACCTTCAAA	GATGATTCTG	AAAAGGGCAA	ATCACGCTTT	2880
GGTGTCTTTT	TGAAATTTAA	AGATACCAAG	AATAATGTTT	TTGTCGGTTA	TGACAAGGAT	2940
GGCTGGTTCT	GGGAGTATAA	ATCTCCAACA	ACTAGCACTT	GGTATAGAGG	TAGTCGTGTT	3000
GCTGCTCCTG	AAACAGGATC	AACAAACCGT	CTCTCTATCA	CTCTCAAGTC	AGACGGTCAG	3060
CTAAATGCCA	GCAATAATGA	TGTCAATCTC	TTTGACACAG	TGACTCTACC	AGCTGCGGTC	3120
AATGACCATC	TTAAAAATGA	GAAGAAGATT	CTTCTCAAGG	CGGGCTCTTA	TGACGATGAG	3180
CGAACAGTTG	TTAGCGTTAA	AACGGATAAC	CAAGAGGGGG	TAAAAACAGA	GGATACCCCT	3240
GCTGAAAAAG	AAACAGGTCC	TGAAGTTGAT	GATAGCAAGG	TGACTTATGA	CACGATTCAG	3300
TCTAAGGTCC	TCAAAGCAGT	GATTGACCAA	GCCTTCCCTC	GTGTCAAGGA	ATACAGCTTG	3360
AACGGGCATA	CTTTGCCAGG	ACAGGTGCAA	CAGTTCAACC	AAGTCTTTAT	CAATAACCAC	3420
CGAATCACCC	CTGAAGTCAC	TTATAAGAAA	ATCAATGAGA	CAACAGCAGA	GTACTTGATG	3480

974 AAGCTTCGCG ATGATGCTCA CTTAATCAAT GCGGAAATGA CAGTACGCTT GCAAGTTGTA 3540 GACAATCAAT TGCACTTTGA TGTGACTAAG ATTGTCAACC ACAATCAAGT CACTCCAGGT 3600 CAAAAGATTG ATGACGAAAG CAAACTACTT TCTTCTATTA GTTTCCTCGG CAATGCTTTA 3660 GTCTCTGTTT CTAGTAATCA AACTGGTGCT AAGTTTGATG GGGCAACCAT GTCAAACAAT 3720 ACGCATGTCA GCGGAGATGA TCATATCGAT GTAACCAATC CAATGAAGGA TTTGGCTAAG 3780 GGTTACATGT ATGGATTTGT TTCTACAGAT AAGCTTGCTG CTGGTGTTTG GAGTAACTCT 3840 CAAAACAGCT ATGGTGGTGG TTCGAATGAC TGGACTCGTT TGACAGCTTA TAAAGAAACA 3900 GTCGGAAATG CCAACTATGT AGGAATCCAC AGCTCTGAAT GGCAATGGGA AAAAGCTTAT 3960 AAGGGCATTG TTTTCCCAGA ATACACGAAG GAACTTCCAA GTGCTAAGGT TGTTATCACT 4020 GAAGATGCCA ATGCAGACAA GAACGTTGAT TGGCAAGATG GTGCCATTGC TTATCGTAGC 4080 ATTATGAACA ATCCTCAAGG TTGGGAAAAA GTTAAGGATA TCACAGCTTA CCGTATCGCG 4140 ATGAACTTTG GTTCTCAAGC ACAAAACCCA TTCCTTATGA CCTTGGATGG TATCAAGAAA 4200 ATCAATCTCC ATACAGATGG TCTTGGGCAA GGTGTTCTCC TTAAAGGATA TGGTAGCGAA 4260 GGCCATGACT CTGGTCACTT GAACTATGCT GATATTGGTA AGCGTATCGG TGGTGTCGAA 4320 GACTTCAAGA CCCTAATTGA GAAGGCTAAG AAATATGGAG CTCATCTAGG TATCCACGTT 4380 AACGCTTCAG AAACTTATCC TGAGTCTAAA TACTTCAATG AAAAAATTCT CCGTAAGAAT 4440 CCAGATGGAA GCTATAGCTA TGGTTGGAAC TGGCTAGATC AAGGTATCAA CATTGATGCT 4500 GCCTATGACC TAGCTCATGG TCGTTTGGCA CGTTGGGAAG ATTTGAAGAA AAAACTTGGT 4560 GACGGTCTCG ACTTTATCTA TGTGGACGTT TGGGGTAATG GTCAATCAGG TGATAACGGT 4620 GCCTGGGCTA CCCACGTTCT TGCTAAAGAA ATTAACAAAC AAGGCTGGCG CTTTGCGATC 4680 GAGTGGGCC ATGGTGGTGA GTACGACTCT ACCTTCCATC ACTGGGCAGC TGACTTGACC 4740 TACGGTGGCT ACACCAATAA AGGTATCAAC AGTGCCATCA CCCGCTTTAT CCGTAACCAC 4800 CAAAAAGATG CTTGGGTAGG GGACTACAGA AGTTATGGTG GTGCAGCCAA CTATCCACTG 4860 CTAGGTGGCT ACAGCATGAA AGACTTTGAA GGCTGGCAGG GAAGAAGTGA CTACAATGGC 4920 TATGTAACCA ACTTATTTGC CCATGACGTC ATGACTAAGT ACTTCCAACA CTTCACTGTA 4980 AGTAAATGGG AAAATGGTAC ACCGGTGACT ATGACCGATA ACGGTAGCAC CTATAAATGG 5040 ACTCCAGAAA TGCGAGTGGA ATTGGTAGAT GCTGACAATA ATAAAGTAGT TGTAACTCGT 5100 AAGTCAAATG ATGTCAATAG TCCACAATAT CGCGAACGTA CAGTAACGCT CAACGGACGT 5160 GTCATCCAAG ATGGTTCAGC TTACTTGACT CCTTGGAACT GGGATGCAAA TGGTAAGAAA 5220 CTTTCTACTG ATAAGGAAAA GATGTACTAC TTCAATACGC AGGCCGGTGC AACAACTTGG 5280

ACCCTTCCAA	GCGATTGGGC	AAAGAGCAAG	GTTTACCTTT	ACAAGCTAAC	TGACCAAGGT	5340
AAGACAGAAG	AGCAAGAACT	AACTGTAAAA	GATGGTAAAA	TTACCCTAGA	TCTTCTAGCA	5400
AATCAACCAT	ACGTTCTCTA	TCGTTCGAAA	CAAACTAATC	CTGAAATGTC	ATGGAGTGAA	5460
GGCATGCACA	TCTATGACCA	AGGATTTAAT	AGCGGTACCT	TGAAACATTG	GACCATTTCA	5520
GGCGATGCTT	CTAAGGCAGA	AATTGTCAAG	TCTCAAGGGG	CAAACGATAT	GCTTCGTATT	5580
CAAGGAAACA	AAGAAAAAGT	TAGTCTCACT	CAGAAATTAA	CTGGCTTGAA	ACCAAATACC	5640
AAGTATGCCG	TTTATGTTGG	TGTAGATAAC	CGTAGTAATG	CCAAGGCAAG	TATCACTGTG	5700
AATACTGGTG	AAAAAGAAGT	GACTACTTAT	ACCAATAAGT	CTCTCGCGCT	CAACTATGTT	5760
AAGGCCTACG	CCCACAATAC	ACGTCGTGAC	AATGCTACAG	TTGACGATAC	AAGTTACTTC	5820
CAAAACATGT	ACGCCTTCTT	TACAACTGGA	GCGGACGTCT	CAAATGTTAC	TCTGACATTG	5880
AGTCGTGAAG	CTGGTGATCA	AGCAACTTAC	TTTGATGAAA	TTCGTACCTT	TGAAAACAAT	5940
TCAAGCATGT	ACGGAGACAA	GCATGATACA	GGTAAAGGCA	CCTTCAAGCA	AGACTTTGAA	6000
AATGTTGCTC	AGGGTATCTT	CCCATTTGTA	GTGGGTGGTG	TCGAAGGTGT	TGAAGATAAC	6060
CGCACTCACT	TGTCTGAAAA	ACACAATCCA	TATACACAAC	GTGGTTGGAA	TGGTAAGAAA	6120
GTCGATGATG	TTATCGAAGG	AAATTGGTCA	CTCAAGACAA	ATGGACTAGT	GAGCCGTCGT	6180
AACTTGGTTT	ACCAAACCAT	CCCACAAAAC	TTCCGTTTTG	AAGCAGGTAA	GACCTACCGT	6240
GTAACCTTTG	AATACGAAGC	AGGATCAGAC	AATACCTATG	CTTTTGTAGT	CGGTAAGGGA	6300
GAATTCCAGT	CAGGTCGTCG	TGGTACTCAA	GCAAGCAACT	TGGAAATGCA	TGAATTGCCA	6360
AATACTTGGA	CAGATTCTAA	GAAAGCCAAG	AAGGCAACCT	TCCTTGTGAC	AGGTGCAGAA	6420
ACAGGCGATA	CTTGGGTAGG	TATCTACTCA	ACTGGAAATG	CAAGTAATAC	TCGTGGTGAT	6480
TCTGGTGGAA	ATGCCAACTT	CCGTGGTTAT	AACGACTTCA	TGATGGATAA	TCTTCAAATC	6540
GAAGAAATTA	CCCTAACAGG	TAAGATGTTG	ACAGAAAATG	CTCTGAAGAA	CTACTTGCCA	6600
ACGGTTGCCA	TGACTAACTA	CACCAAAGAG	TCTATGGATG	CTTTGAAAGA	GGCGGTCTTT	6660
AACCTCAGTC	AGGCCGATGA	TGATATCAGT	GTGGAAGAAG	CGCGTGCAGA	GATTGCCAAG	6720
ATTGAAGCTT	TGAAGAATGC	TTTGGTTCAG	AAGAAGACGG	CTTTGGTAGC	AGATGACTTT	6780
GCAAGTCTTA	CAGCTCCTGC	TCAGGCTCAA	GAAGGTCTTG	CAAATGCCTT	TGATGGCAAT	6840
GTGTCTAGTC	TATGGCATAC	ATCTTGGAAT	GGTGGAGATG	TAGGCAAGCC	TGCAACTATG	6900
GTCTTGAAAG	AACCAACTGA	AATCACAGGA	CTTCGCTATG	TTCCGCGTGG	ATCAGGTTCA	6960
AATGGTAACT	TGCGAGATGT	GAAACTTGTT	GTGACAGATG	AGTCTGGCAA	GGAGCATACC	7020

TTTACTGCAA	CTGATTGGCC	AAATAACAAC	976 AAACCAAAAG	ATATTGACTT	TGGTAAGACA	7080
ATCAAGGCTA	AGAAAATTGT	CCTTACTGGT	ACCAAGACAT	ACGGAGATGG	TGGAGATAAA	7140
TACCAATCTG	CAGCGGAACT	TATCTTTACT	CGTCCACAGG	TAGCAGAAAC	ACCTCTTGAC	7200
TTGTCAGGCT	ATGAAGCAGC	TTTGGTTAAG	GCTCAGAAAT	TAACAGACAA	AGACAATCAA	7260
GAGGAAGTAG	CTAGCGTTCA	GGCAAGCATG	AAATATGCGA	CGGATAACCA	TCTCTTGACG	7320
GAAAGAATGG	TGGAATACTT	TGCAGATTAT	CTCAACCAAT	TAAAAGATTC	TGCTACGAAA	7380
CCAGATGCTC	CAACTGTAGA	GAAACCTGAG	ТТТАААСТТА	GATCTTTAGC	TTCCGAGCAA	7440
GGTAAGACGC	CAGATTATAA	GCAAGAAATA	GCTAGACCAG	AAACACCTGA	ACAAATCTTG	7500
CCAGCAACAG	GTGAGAGTCA	ATCTGACACA	GCCCTCATCC	TAGCAAGTGT	TAGTCTAGCC	7560
CTATCTGCTC	TCTTTGTAGT	AAAAACGAAG	AAAGACTAGT	ATTTAGTAAA	ACCTCTTAAC	7620
AAGATTACGG	AAGCAGTCTC	TATCTTTTCC	AATGAGGTTT	ATAGTACAGA	AAAAGCCTGA	7680
GAAGATGTCT	TCTCAGGCTT	TTGTTAAGCA	CATAAATACA	ATAGTGCTAT	GACAAAATCA	7740
CCCAGAAAAA	TCTGGGTGAT	AAATGTTATG	GTTGTGCTGG	TTGAGGATTC	TGATTTTGTT	7800
GATCAGGGGT	TGTATTTGAT	TGTTGCGTAT	TATTGTTAGG	ATTGGTAGTC	GTACTATTAT	7860
TTGTGCTTGG	AGTGGTTGAG	CTAGACTGTG	AAGTTGAACT	ATCTGATGAT	GAGCTTGAAC	7920
TTTCAGTTGA	TGGGGGTTGT	TGTGGAGCAG	GTGAGTTCCA	CGTAGAACGA	GCACCATTTT	7980
TAAATACGAA	TTCTCCATTT	CTGTAGAGCC	CCTCTGGTAT	ATTCCAATCT	TCTGGATTGC	8040
TTCCTTCAGA	CAGGTAGGTC	ATCATAGAGC	GGTAAACTTT	GGCAGCGACC	GTAAGGCCAT	8100
TGCCTACAAG	TGGTGTCAGA	CGGTTAGAAT	AGCCTGTCCA	TACAGCCATT	GAATATTTAC	8160
GCGTATAGCC	AGCAAATAGT	TCATCAGGTG	CTACAAATTG	AGAGGTCTTG	ATGTGGTTTT	8220
CAATTTCCTC	GTCTGTATAG	TTAGAGGTTC	CTGTTTTACC	AGCCTGAGGG	AGCCAAGCAA	8280
GATAGGCATT	TCGTCCAGTT	CCATAAGTCA	AGACTGTTTT	CATCATGTCG	GTCATCATAT	8340
AGGCTGTCGT	TTCCTTCATG	GCACGAGTTC	CGACATTAGA	GAACTCTTTT	TCACTCCCAT	8400
CACTAAAGAC	GACTTTATGG	ATATACATTG	GTTTATAGTA	AGTTCCACCA	TTTGCAAAGG	8460
CAGCGTAAGC	AGCAGCCATC	TTTTCACTAC	TTGCTCCATA	TTTTTTGTCT	GATTCGGTTG	8520
TGTTACTTGA	AATGGCATTT	GAGTAGTGAA	TACTTGGGTA	GTCGATTCCT	AGACCATTTA	8580
GGAAAGTCTT	GGCGCGGTTG	AGTCCGACCT	TGTTTAGAGT	TTCCACGGCT	GGGACGTTTC	8640
GCGATTGTTG	CAGGGCGTAT	TGCAAGGTGA	TGTTGCCAAA	GTAGCCCCTA	TCCCAGTTAT	8700
AAACAGGAGT	ATTTGTCCCA	GGGTAGTTAT	AGGGCTCATC	GTGAACGATA	GTAGCAGTTG	8760
AATCGTAGAC	ACCGTACTCC	AAGGCAGGAG	CATAGTCTGT	GATCGGTTTC	ATAGTTGATC	8820

CCCAGTCGCG	GTTTGTTTCT	ACTGCTTGGT	TAATTCCGAA	GGAAACATTA	CTTGACTGAT	8880
GGCGTGCTCC	TAGCTGGGCA	ATGACTTTAC	CGTTAGAAAC	ATCAACAATG	GTAGAAGCGA	8940
CTTGCAATTC	ATCGTCTGGA	TAGGCAACGT	ATTCGTCTGT	ATTGTAAATA	TCCCACAGAT	9000
GTTTTTGAGC	TTCTTGGTCT	ACATTTGTGT	AGACATCCAT	CCCAGTTGTG	AGTAGGTTAT	9060
AGCCTGTTTC	TTCTTCAACT	TGATTGATGA	CTTCCTTGAG	GTAATTATCC	ATGTAAGCAG	9120
GGTAATTACT	TGCTGATTTG	AGACTTTGTA	GTCCATCAGT	AATTGGTGTA	TTGACTGCTT	9180
TCTCATACTG	TTCAGCAGAG	ATGTAGCCTT	GATTTTTCAT	TTCAGATAAG	ACCAAGTTTC	9240
GGCGGTCTTG	GGCTGCTTCT	GGATGTGAAT	AGGGGTCATA	TTGGTTTGGT	GCCTGAGGCA	9300
TTCCAGCCAG	CAAGGCTAAC	TGAGGTAAAC	TTAAATTATT	GAGGTCTTTA	CCATAGTAGT	9360
TTTGAGCTGC	TGTCTGCATT	CCATAGTTCC	CATTAGACAT	GTAGACCTTA	TTTATATAGT	9420
AGGTCAAGAT	TTCTTGCTTG	GTTGCTTTTT	GTTCTAACTG	AATCGCTAAC	CAAGCTTCCT	9480
GAGCCTTACG	AGAAATAGTC	TGGTCGGAAG	TCGAAGTTGA	AAAGTAAGTC	AACTTAATCA	9540
ACTGTTGGGT	GAGAGTTGAT	CCACCTTGGA	GGGAATTGCT	TTGCAGATTG	CGCAAGAAAG	9600
CTCCCAGGAT	ACGGATGGTA	TCAATCCCCC	TGTGGTCGAA	GAAGCGATGG	TCTTCGATAG	9660
AAACGATTGC	CTTAACCAAA	TCTGTGGGAA	TATCATTAGC	TTGGGCATTG	ACGCGGCGTT	9720
CAGAACCCAA	GTCAGCAATG	AGTTGATTTT	TATTGTCGTA	GATTTTACTA	GAAGTTGTTG	9780
CAACTAGTTT	ACTCTCGGAT	AGGCTAGGAG	CCTTGCTAAC	GTAGTAGAAA	AAAACTCCTC	9840
CGCCTAAGAC	AATGGCTGCG	ATAACCAAGC	TTAAGAAGCT	AATGCTCAGA	TACTTGATTA	9900
GGCGCAGAAT	CGTTGGTTTG	TTCATCTTGT	TTTACCACCT	AATAAATGTT	CTTTGATAAC	9960
ATTGAGATAA	GGAATTTGAG	GGAAGGCACC	AGCCTTGATT	TCATATCCAT	ATTCTCGAAT	10020
ATATTCAAGT	GGCATTGATT	TTTGTCCCTT	ATCTTGATGA	TAGAAGCGAA	TCAAATCGAA	10080
TGCCGGCAAT	AAGTAGGTTT	CTTGCTGAGA	AGAAAAGTGA	AGAAGGACAA	AGCAGATTCC	10140
TTGTTGGGCA	AGGACTTGTT	CCATATGCTG	AATCTGATGT	GGATGAAAAT	TTTTCATCGG	10200
AATCGCACGT	TTTTGTTTTG	TTTCCTTGAC	TTCAAAGTCG	ATGTAATATC	CATTATAAAC	10260
GCCAGAATAG	TCCGTCGTTG	AAGCTTGTCG	AAAATAGGCT	TCAACAATCT	TGGCACGACT	10320
TCGTTGTGGA	TAGTCCACTT	GTACGATTTG	AATAGGAGTT	GGTTTCTTAT	GTATAACAGC	10380
CAAGCCCTGA	GACAAATAGT	AGTCGTTGGT	AGCATTGATC	ATCTTTTCAA	AGGGTACCGA	10440
GCTCGAATTC	GTAATCATGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	CGCTCACAAT	10500
TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	AATGAGTGAG	10560

P78
CTAACTCACA TTAATTGCGT TGCGCTCACT GCCCGCTTTC CAGTCGGGAA ACCTGTCGTG 10620
CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTTGCGTA TTGGGCGCTC 10680
TTCCGCTTCC TCGCTCACTG ACTCGCTGCG C 10711

- (2) INFORMATION FOR SEQ ID NO: 146:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11887 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

TACATTCATT CCATCGGCTA CTCCATAATA CTTAGATAAA ACCATAGCTG AAGTCGAATA 60 CGGATACTGT AAAGTATTAT CAATTTTAAT CAAATCATCA TTACCGATAA TACTTCTGAT 120 TGCTTTTGGT AGTATGAACC ATACGTTGGT GAAATCTCAG ATAATGAAGA ATCATTAGAC 180 TCTGGACCTT TTTCTAGTGT CTCACTTACC TCATATTCTT CACCCTTACT AGAAATAACA 240 CTCAAAGCAG ATACTGTCGA TAACTGGCTA GCCAATAAAG TACTCGCAAT AATTGAAATA 300 CCCAATTTT TATAAACAGT TTTCTTCATT ATTGTATCCT CCTAATGTAA TTATAGCGTA 360 CTATTCTAAA TTTCTTAATC TACTATAGAA TCAAGAAATC TACCACCTTC TTTAAATACC 420 CTCCATTATC ACATAAACAG GTAAACTTTT CAATTAATGA CTGCGCTTTT CAATCACGCT 480 AGAGGTACTT GCTTGCTTCT TTGATACTAA GTTCAGCCAT TCTTTCCTTG TTTTTCTCAA TAAAGCATGT TACCCAAGTG GGATTCGTTT TGGAGTAGTC TCGCAGAGTC CAGCCAATGG 600 CTTTATTGAT AAAAAATTCT GTTTGGTTCA AGTTATGAAG GAGAATCTTT TCCATTAATT 660 GAGTATTGGT CTTCTCTTTT CTTAACAACT GGTGGTCAAT AGCGACACGT CTCAGCCAGA 720 TATTATCTGA TAGGCTCCAT TTTATACTCA ATGAAAATCA AAGAGCAAAC TAGGAAGCTA 780 GCCGCAGTTG CTCAAAACAC TGTTTTGAGG TTGCAGATAG AGCTGACGTG GTTTGAAGAG 840 ATTTTCGAAG AGTATTAAGA TTATTTCTTC TAGTTCAGGG TGTTCATACA CCAAACTCCC 900 TACTACTCGA TCTAGGATAT CTACCGTGTC CCACAAGGAT TTTGTCACGA CTAACTGCTC 960 TAGCTTAGGC AAATCGGTTT CCTTTAGATA AGACTGCATT GCTTTCAAAT AGTTAGCAGC 1020 CACATATTGG TATTTTCTAG GATCCTTTTC CCAGCAAGTG TCTGCAAAAT CCCAATCGAT 1080 AATCTTTGTT TTTTTCGCTT CTGGAAAATA TTTTATAGAG TTTATTTCTT TCAGGCACCG 1140 CAATACCTAG AAAAGAAAAT TGATGGCGCA TATAGGCTTC CATGGACCTT GCTTTTTTAG 1200 AGTCTTTTGC TGCTTCTAGC TCCTCAAGTA AATCTGCTAA ACTCATCTAA AACTCCTCTT 1260

GCCCCACCAA	ATGGTGCTGA	AAGGCATAGA	CAGCCGCCTG	GGTACGATCG	CTGACTTCAA	1320
GTTTGGCAAG	AATATTGGAC	ACGTGGGTCT	TGACCGTCTT	GAGAGAGATA	AAGAGGTCAT	1380
CTGCGATGCG	CTGATTTTCG	TAGCCCTTGG	CGATGAGTTG	GAGAACATCT	CGCTCACGCG	1440
CAGTCAATTC	TTCATGAAGT	TCCATATGAT	TGCGGTGGTA	TTCAACCTTC	TTGCTAACCT	1500
CTTGCTCAAT	GGCCAGCTCG	CCAGCAGCTA	CCTTACTGAC	GGCATGAAGC	AATTCATCTG	1560
CACTAGAAGT	CTTGAGCATA	TAGCCTTTGG	CACCAGCATC	TAAGACTGGC	ATGATTTTTT	1620
CATTGTCCAA	ATAAGAGGTC	ACAATCAAAA	TCTTGGCTTC	AGGCCATTCT	TTAAGGATTG	1680
CTAAGGTCGC	GTCAATCCCA	TTCATCTCAG	GCATGACAAT	ATCCATGACA	ATGACATCTG	1740
GACGCAGTTC	CAAGGCCAAG	TCAATCCCTT	GAGACCCGTT	GGACGCCTCA	CCCACAACTT	1800
CTACATCGTC	TTGGAGGTCA	AAGTAGCTTT	TCAAGCCCAA	TCGGACCATT	TCATGGTCAT	1860
CTACTAGTAA	AATTTTCATC	TTTACTCCTT	TATCATTCCT	TATCTAACAG	GGGAATACGG	1920
ATATCAACCG	CCAGCCCTTG	CTTGGGAGCT	GTCAAGAGTT	GAACTGTTCC	AGCCATATCT	1980
TCAACCCGCT	CCTTGATATT	TCGCAGTCCA	TAACTCAAGT	CGTCTAAGCT	CCCTAACTGG	2040
AAACCAATCC	CATTGTCCAC	CACCTTCAGT	TGCAATTCAA	CATCTGTCTG	ATAGAGGTAG	2100
ACATCTAGGC	AAGATGCCTG	GGCATGGCGG	AGGGTATTGC	TAATCAACTC	TTGCAGGATA	2160
CGGAAGATAT	GCTCCTCGAT	TTTCTTAGGC	AATTTCGTCA	TATTCTGCTT	GAGACTAACC	2220
CTAAGATCAC	TCTTGTCCTC	AAGCTCTTTT	AAAAGAATTT	GAATCCCTTC	TATCAAGCTC	2280
TTCTGCTCCA	GTTCAACTGG	TCGCAAATGC	AAGAGCAAAA	CCCGCAAATC	CTTCTGGGCT	2340
GTTTCTAAAA	TAGCTGTGAC	ACTCTGCAAC	TGGGTCTGCA	TCTTTTCTCT	ATCCAATTTC	2400
AAAGCCTGCT	GACTGATACC	CGATAAAATC	ATGTGGGCCG	CAAACAACTC	CTGACTGACT	2460
GTATCGTGCA	AATCCCGAGC	AATTCGCTTC	CGTTCCTTCT	CGATGATTTC	CTCTTCCTGA	2520
GCAAGGCTCT	GATTTTCAGC	TTTTTGAAGA	GCCTCTGTCA	AAAGGTTAAG	TTTACCTGAT	2580
AAGGACTTGA	AACTGGCATC	CAAATCTGGA	TCTGCAACCT	GAACCACTTC	TTGCCCTGCT	2640
AATAAACGCT	TGAGATTAGC	CTGCATTTTT	CTTAGAGAAA	GCTCTTCGAT	CCCTCGCCAA	2700
AACAGGGCTA	AGAGACAGGT	CATGGACATG	CTGAAAACCA	АСААТАААА	GACAAATTTT	2760
TCTGTTTTTT	CGACATCGTG	CAAAAAGATA	GACCAGTCAA	AATCAAGTAT	TTCCAGCAAG	2820
CTGTGGGAGA	AAAAAAGAC	AAATAGGAAG	GAGGTGAGAG	CAATAATGAC	ATAGGCTTGT	2880
TTTTTCATCC	TCTAACCACC	TCCACATCAC	CAATCATAGT	GGTCAAGAAA	ATCTTGACAC	2940
TCTTGTTACT	CTTGAGATAG	TCTTTTGTTT	CTTGATGATA	GTGTTCATTG	CGGAGGGCTC	3000

980 GCTTGGGCTG GTTGAAAAAA ATCAAATCCC CATAGAGACA GTTAACGCTG AGACTGACTT 3060 CCACATCTAC AGGTACGATG ATTTTGGTCG TTCCTACCAT CTTTCTGAGG ATAATGACAT 3120 TGTCATGATT GGTTAAGATG ACCCTCTCCA GATGAATAGT GTCCTTGCCC ATGAAGCGAA 3180 AGAGATTGAT ATCATCGAAT TGGCAAGTCT GGTAGCTTGA AAAATGATGA AGATTTCCAA 3240 ACCAACGATT TTTCTCCTTC TTAACCGTCA CGACCTCTTC AAAAACCAAA TTGGTCTGCT 3300 CTTTTTCCTG GTTCATCATC GGGTAAAGAA GAAAGAGGCT ATAGATAACC GCAACAAAAA 3360 TAGCTAGAAT CACAAAAGGA TTGAGCATAA CGATGAAAAA GAAGAGAATG GTTGCCGCTA 3420 CTAAAAGAAG ATTATTTCCC TCTTTACCAG TGTAGTAGCG AATCAAAAGC AAAAAGAGGA 3480 ATAGTATCAG CAGAAAACGC GAAAAATGCT CTGATACCAT CAAAATCAGA GCTCCTGTCA 3540 GAAGACAGGC TTCGATAAAT AAAAAGATTT TAAATTTTCT CATAGGTTCA TCCTCTCCCT 3600 TCTATTTAT CACAATTCAA AAAAGTCACC TCAGTCTGAG GATGGAAAAA AGGCGCTGGT 3660 TACGCCTTTT TCATCTGATC CTTTGCTTCT TTTAATTTTC CATAAAGAAG ATAGTCTACT 3720 TTTTGTAGAT CTGCTATGGT GGCACAGTTA AGGGAACACA TAATCAAGCG TAGATCTGCT 3780 TTCCAGCCTT GGACAATGCC AATCACTTCT TCAACTGTGT AGGTTTCAAC CAATTCCAGA 3840 ACGGTTCGTG ACAATCCCAC AGCCTTAGCA CCAAAAACCA AGCACTTAAT CATATCCAGC 3900 GGATTCCGAA CCCCTCCACT AACCAAGAGT TCGACCTTAT CTTTCCATTC TTGGGCATTG 3960 AGAAGGGCCT GCATGGTAGA CTGACCCCAT TGATTGAGGT AATCACGCTG GCCACTACGA 4020 CGGTTTTCGA TATAGGCAAA GCTGGTGCCA CCACGACCCG ATAGGTCCAC TGTACGAACA 4080 CCGAATTCAT AGGCTCTTTC GATTGTCTTG GCATCCATTC CAAAGCCCAC TTCCTTGAGG 4140 ACAATAGGAA CGGGAATTTG CTTGCTATAA TCTGCTAGAT GCGATTGCCA GCTTCTAAAC 4200 TTCCTTTCTC CCTCGGCCAT GAGTAATTCC TGCATGACAT TGACATGCAC TTGCAATAGA 4260 ACAGGATTCA TCTCTTCTAC AGTCTGAAGT CCTAACTCGA CAGGCTTGTC CAATCCAATA 4320 TTGGTTCCAA GGAGGAGATT GGGATGACTA GACTTGACAG AAAAAGAATC ATCCGTTGGA 4380 TTTTTGAGGG CTGCGCTATA AGAACCCGTT ACAAATAAAA TACCACAGGA TTCCGCCACC 4440 TGAGCCAGCT TTTGATTGAT TTCTCTTCCC TTATTACTTC CACCAGTCAT GGCATTGATA 4500 TAAAAAGGAA AGTCCCACTT TCGACCAGCA AACTCTGTCG AAAGATCGAT TTCATCCAGA 4560 TTGTAAAGAG GCAAGGAAGA ATGAATCAGC TCCACCTCAT CAAAGCTATT ATAGGAACTT 4620 TTCTGCTCAA GGGCATAGAG GATATGCTCG TCCTTACGAT TTGTCGTCAT GTCCTATCCT 4680 TTCTTGATAT AAGAGCTCAA TCCCCAGATC GGCCCAACGA TTTTTTAAGG TTTTGGTTGA 4740 TTGCGCATCA AAACTCAGGG CGATGCCACA GTCACCACCA CCAGCACCAC TACTCTTGGC 4800

AACGGTCTGC	AAATCTTGAC	TGGCTTCTTT	CAACTGTCTA	AGCAAAGGCG	TGTAAATATC	4860
TGTACTCAAG	CCTTCTAAAA	GCTTGCTGGC	TACTTCTACT	TGATCGATAA	TCTTTTCTGA	4920
PTTCCCCTGT	TCCAAGGCTT	CTACCAGAGA	AGTCACCGTT	TCTTTTGAGG	AAGTTAAAAA	4980
ATTTTGATTG	ATATTTTGCT	TGATTTGCTG	GACCATGTGA	CTCGATACAG	CCACTTCCTT	5040
GGTCCATCCC	ACTAAGAAAT	CACATTCTAA	AGTTGGTTTC	ACTTGTGAAA	TTGAAAAGCC	5100
CCAATCACGC	TCCAGAACTG	TCGCCAAGTT	TTCTTCTTCT	AACCAAGCAG	CCACCTTCTG	5160
GCGATCAAAT	GACTGGTAGA	GAACCAAATC	CTCTGCCACA	ATACAGGCAA	GGTCGCCCAT	5220
GGAACCATTG	TCTCCTCGCT	TAAGCAAGAC	AGCGCTAGTC	AGCTTGAACA	AGAGCTCCTG	5280
ATCAACAGAA	ACATCATACA	GAGCCAGTAA	AGCCTTGACA	ACCAAGACAA	CGACGCTGCC	5340
ACTAGAACCT	AGACCAAACT	TTTTCCCTTC	TCGTTCCATT	TTGCCACAGA	TTTCTAGAGA	5400
AAAAGGTCTT	AAATTCTGAC	CACGAACAGC	GAGGAAGTCT	CCCATCAAAG	CAATCGTTTC	5460
PTGAATCAAG	CTATAGTCAG	GATTAGGCCT	TAAGTCCACT	GCGAAATCAA	ACATATCTGA	5520
ATAGATACGG	TAGCTGTCAG	AAAAAGCAAT	CTCAGCCCTC	ATATAGATGG	GAATATCCTT	5580
TATCAAAGCT	AACTGCCCTG	GCTCTAAAAT	AGCATATTCA	CCTGCCCAAT	AGAGTTTTCC	5640
GCAAGTTTTA	ACAGCAATCA	TCTTGACTCA	AATCCTTTGT	TTTTGACACA	ATCAAGCGAT	5700
AACGATGACC	GAAAATTTCT	GATAAATGCT	CCAAGTCTTT	CTCCTGACAG	AAGACCTTAA	5760
CATTGGGACC	AGCATCCATG	GTAAAGTAGC	AGGCCTCTCC	TTTCTCACGA	AGCTGGCGAA	5820
CAAAGGCCAT	AGCCTCATAA	GAGGCATCCG	TCAGATAAGA	AAAGGCTGGA	CTAGCAGTCT	5880
TTGTCGTAGC	ATGCATAGCC	AGGGCATTTT	TCTCCGTTAA	TTCTCCAATC	TTGGCAAAAT	5940
CATTTTCCTT	GAGATAAATC	AGCATATCCT	GATAGTCCTT	CTCAGACTGA	CGAACCCAGT	6000
CGTCGAAAGT	CGTCGAGGTT	TCCACACAAA	GTTTCATCCC	GTCACGGCTA	GAGATTGGTT	6060
TTTTCTTGTC	CTCTAGCACC	AACATAATCA	TAGCTAGTTT	CAAGTCTGTC	TCTACAGGGT	6120
AATTTCTCC	ACTATCCTTA	TCCCAGGCTC	CTAGTGGTCC	ATAAAAACTC	CGAGAAGAAG	6180
ACCTGAGGC	AAATTTGGCT	TCCTGTGCCA	ACTGACTTCT	ATCCAATCCA	AGCTTGAAAT	6240
AGCATTACA	AGCCTTGACC	AGGGCGGACA	AACCACTAGA	ACTTGAGGAC	AGACCCGCTG	6300
CCGTAGGCAT	ATTGTTTTGA	GTATCGATAC	GGACAAAGCC	CTCACCAGCT	GGACGATAAC	6360
GTCAATAAT	CTTACTCATC	TTGGCATGCT	CGACCTCATT	TTGTAGCTGA	CCATTGATGT	6420
AAATTCGTC	AGCTGTTACA	TTGGCTGGTA	AAGGCGACAA	GGTCGTCTCT	GTATACATAT	6480
TTCCAAAGT	TAGAGAAATA	CTGCTAGTAG	CAGGCACCAT	CTCTTTTTCT	<b>ሲ</b> ሳተሳተ	6540

CCCAATATTT	GATAATAGCA	ATATTTGCGT	982 AGGAACGTAC	TGTTACAGGC	TCTCTATCCA	6600
	GCTCCTTTCT					6660
GGTTACCAAG	GCTATGATAC	AACCTCCTAG	CCCACCACCG	CTCATCTTGG	CACCCAGAGC	6720
	AGAGTCGTTT					6780
	AAATGCGCTT					6840
	TCTGCTTGCT					6900
	TTTTGAACCA					6960
	AAATAGGCGG					7020
	GGTTGGTCAC					7080
	TCAGCTCGAT					7140
	AATACTGCAC					7200
CCGTTTCTCA	GGGATAGCCG	AGTCAATCTC	ACAACGAATG	CAGGCTTCTG	TGATATTCAA	7260
ATACTCCAGT	GAGGCATAAA	CCGCCATGGA	CAAGGTATCC	TCCTCATAAA	GGCGCCAAGG	7320
	GGAACTACCT					7380
AGGATAACCG	TAAACGACCG	CATGTTCCCC	ТАТТААААТТ	ATCTTACTAT	GTGCCTGACC	7440
GACACCAACT	TTTTTTGTCA	TTTTTTCCTT	TTACTAGACG	AAAAAACGTC	TTATTTTTCA	7500
TACAAGTATT	AATTCTTTCC	TATCTATTT	ATTATATTT	CACAAAAAAA	GCGATTGTTT	7560
CCATTCACAA	TCGCTTCTTT	CATTATTGAA	CCCATTCGCC	ATTATAGTTG	ACAGAATAGC	7620
CATCTACGGT	CGTATTCACT	GCCAAGGCAC	CTGAGCGCTA	TAAGCGTAGT	ACCATCTGCC	7680
ATTGACCTGG	AACCAACCTG	TCGTCATAGA	ACGACGAAAG	AAACTCCATA	CCATTAAGTA	7740
AAGAGGAAAG	TCGTGAGGGA	GCATGCGCCA	TTGACAACCT	GTTTTAGTGA	CGTACAAAGT	7800
CTCATTAACA	AGTACTCGTT	TCGGCCATTT	ATAGGTGCGG	TGTTTGGAGA	AATAGGGTTC	7860
AATCTTCGCC	CATTCTTGAT	CGTTTAAATC	AGTATCATAT	GCTTTGCGTA	TCATAACTCT	7920
AGCTTAACAT	TTTTTTGTGA	ATACAGGTTC	TAAATAATCG	ACCACGAAAA	TTTCTTAAGT	7980
GGAAAACGCC	TTATGAAGTA	TGCTACGGGA	AAGTTATGCA	CTTAATTTGA	CAATTCAAGA	8040
TGTAAAAATA	TATACTATAG	TAGATTGAAA	CTAGAATAGT	ACACCTCTAC	ТТСТААААТА	8100
TTGTTAGAAA	TCGATTTGAC	TGTCCTGATC	GATTTATCCT	GTTATTATCT	САТТТТАСТА	8160
TAATATTTGA	TAAGTTATCC	TAAAAGTATT	ATTATGTTGT	TGTGTTATAG	ATTGATTGAA	8220
тстаастааа	GGATCCTATT	CAATTACTAG	AACTATCACA	TACTCAAGGT	CAGCTCACAG	8280
ATGAGCAACT	ATTTTGGTTA	CAATGTCTAC	TAAATTTAAG	TCAAACAAAT	AATTTAGTCA	8340

AAATTAAAAA	AATAGAGGAA	CATAAATATG	ATTACAAAAC	AGAATGTAAT	AGTGTTCTAC	8400
AATTTTTACT	AGATAAAACT	GTAAATTCTG	AAGGAAGGAT	CACTTCTTCA	ACAGAATTTG	8460
GAAATTTCGT	AAGTAATTTA	TCATTCCAAC	ACGGAATAGC	TGGACTACTG	TTTCCTCTAA	8520
ATAAATTGTA	CCCCCAGAA	CTGGATTCTA	AAATACTCTC	TATCATCAAG	AAGGCAGTGA	8580
CAATTAGAAC	GACACACACA	TATGAATATC	AATACTCACT	GCTATTTGGT	GATGCAGGCT	8640
ATCTATGGTT	ACTCCTACAT	TTATTTTCTA	TCAGTAAAAA	TCAATACTAT	CTACAATTAG	8700
CAAACGTCAC	CGCTAAAAAA	TTAATAGAGA	ATTATGATAC	TCTAGAGGAA	ATAGACTTTG	8760
CATTGGGAAA	ATCTGGTGTC	CTATTATCAT	ТААТААААТА	CTATCAATTT	ACCAATGACA	8820
ATACTCTTAA	AATTTTCATC	CACAATAGTA	TAGGGGAAAT	TTATCATTAT	TTCCTACAAA	8880
GAGATACAGC	CAAAGAAAGC	ATTTTAGACT	ATAGCTTTGC	TCATGGATAT	TGTGGAATTG	8940
CATATGCTTT	ATTTGCCTAT	TCTAAAGTCT	TAGAACCTTC	TATGTTTTAT	AATGATCTCC	9000
ATACATTCCA	TACTGAATTA	AAAAAATTAT	TAGAAAAAGT	TACTTCTAAT	ACTGAAAATT	9060
TAGGAAATTT	ACAACTTTCT	TGGTGCAAAG	GAATTTCCGG	AATAATCTTA	TATCTTTGTA	9120
TGTACGATTG	TGACGGAAAC	AAAGATATTA	TTAGTAAATA	TCAAGAATTT	GTTTTTAACC	9180
ATCATCTAAA	AATGATGACA	GGATATTGCC	ACGGAATAAC	TAGCTTACTA	CAAACCACTG	9240
TCTACAATCA	AAACAAATTA	CTGATGAAAA	AAATCCAACA	GGTAATTTTA	GCATGTTCTG	9300
AACGAGATGA	TCACGGTTTA	CTGATGTTTC	AAGGAGATAG	TGGTAAAGCA	GATTTGTTTG	9360
ACTTCGGAAT	AGGAAGCATG	GGGTATATTG	GTGTCTATTA	AATAATAAAT	TCCCATTCGA	9420
TGTGCAGACA	TAAGGAGAAA	AGTATGAAAT	TATTTTGGAC	AAACAACATA	TATAGACAGT	9480
TGCTGCTAAA	CAGCTGTTTT	TCATCATTCG	GCGACAGTAT	TTTCTACCTC	GCCATTATCA	9540
ATTATGTGGC	TCAGTACAAT	TTCGCTCCGC	TAGCGATTTT	ACTGATTTCC	ATTTCAGAGA	9600
TGGTTCCCCT	ACTATCGCAA	CTCTTTCTCG	GGATTCTAGG	AGATTTTCAA	GAAAATAGAG	9660
TCAAACACGC	ACTCTGGATT	GCCAAAATCA	AAATCCTGCT	CTACGCTATT	TTGACAGTAT	9720
TTCTCGTCTT	GTCGCCCTTT	TCATTAGTTT	CAGTCATTAT	GATTGTCATC	ATCAACCTCA	9780
TCTCTGACAC	CTTGAGCTAC	CTGTCTGCCT	ACATGATGAA	CGCCCTCTAC	ATCAGTGTAA	9840
TTAAGGACGA	CCTGCATGAT	GCCATGGGGT	TCAGGCAGTC	TCTGATGAGG	GTTGTCCGTA	9900
TTGTCGCCAA	TCTGGCTGGC	GCATTCCTTA	TCAATGTTAT	AAGTATTCAA	ACTATTTCCC	9960
TTATCAACAC	TCTGACTTTT	GTCATTGCCT	TTTTGGGCCT	GTATGTTATT	CGACATACCT	10020
TGTATGAGGT	TGAAAAAAGA	ATTGAAATGT	CACATACAGC	ACTGAGTTTT	AAGAAATATT	10080

	TTCAACATCT	TAAACAGTCG	CTGGCTGTGC	984 TCCTGAGGTT	AAAAGATACC	GTCATACTAC	10140
	TGTTTCTGAC	GACCAGTATG	ATTGCCATCT	TGGATGTGTC	CCCTCGGCTG	ATTGCCCTCC	10200
	GCTTCATCCA	ACAGACACTA	GCACAACTGA	GCATTGGGCA	ACTCCTCGCC	CTGCTCTCCA	10260
	TCATCATGTC	TTGTGGAGCT	ATCCTTGGCA	ATATGACCAG	CAGTAATCTA	ТТТАААААТА	10320
	TCCGTTTCAC	GCACCTCTTG	GTTTTCTGTG	AGATTTCCCT	ATTGACTCTA	ATAACTAGTA	10380
	TCCTTTGTCA	AGCCTATATC	GTAATTTTCA	TGACCAGTTT	CATCAGTTCT	ACGATTATCG	10440
	GCATTCTCAG	CCCTCGCCTA	CAAGCAGCTG	TCTTTGCCCA	TATCCCCAGT	GACAAGATGG	10500
	GGACGGTGGG	CTCTGCTCTG	AGCACAGTGG	ACATTCTCGC	CCCGTCCCTG	CTCTCCCTAT	10560
	TAGCCCTATC	CATAGCATCG	GGCGTTTCGG	TGCAGTTAGC	ATTGATATTT	TTGTATCTTA	10620
	TTTTAATTGC	TCTTATCTTT	TGTCAATGGT	TAGTCAAGTT	CAACACTCAT	AACTAACGAA	10680
	AAAGCATGTG	TAGATTTCAC	ATGCTTTTAA	TCTCCCCAAT	CGTCAGGTCA	AGTACAACAA	10740
	AGTCACTTCT	TTGATTAAGC	GAGTGTTCTA	ATATAATTAT	AAGCGCCCTG	TCATTACCGA	10800
	ACCCATTCGC	CATTATAGTT	GACAGAATAG	CCATCTACGG	TCGTATTCAC	TGCCAAAGCA	10860
	CCTGAGCTAT	AAGCATAGTA	CCAGTTGCCA	TTGACCTGGA	ACCAACCTGT	CTTCATGTCT	10920
	CCATTACCTG	CATTTAGGTA	GTACCAAGTT	GAACCATCTT	GATACCAACC	AGTTGCCATA	10980
,	GCTCCTGATG	AACGGAGATA	GTACCATTTG	TTCCCAAGGT	TTTGCCAACC	TGTTTTCATA	11040
	TCGCCATTTG	GGTGGTCTAA	ATAATACCAA	GTGGTACCTT	CCTGATACCA	GCCAGTGGCC	11100
	ATTGCTCCTG	AGGAACGGAG	GTAGTACCAC	TTATTACCTA	GATATTGCCA	ACCTGTTTGC	11160
	ATAATACCAG	TTGTTGGATC	TAGGTAGTAC	CAAGTCGAAT	CATCGTTTAT	CCACCCCGCA	11220
	CGTCTTTCAC	CACCAAGGTA	GTTTTCTCCA	TTAATTTCCG	TCTTAGCTAG	ATAATACCAG	11280
,	TTAGACTGAT	CATAAAGCCA	ACCTGTCTCT	AAAGAATGAT	TTTGATTAAA	GTAATAGTTC	11340
•	GTATAATAAC	GCTTCTCTTC	TTTATCTTCT	GAATCTTCAC	GTTTTTCCCC	GTACTTTCTT	11400
,	CCAACACTGT	CTTTAGTTTT	AATCTCTAAT	GTTTTCCAAC	CAACAAACTC	TTGTAGCACT	11460
,	CCATTTTTAT	CGAAGTAGTA	CCACTCTGAC	TTTGGAAAAC	CTTCTAATCT	GATACCATTT	11520
•	GGGTAAGGAC	CAATTGTACT	ACCTTTAGAT	GGAAACGGGA	TATATTGCCA	GCCGACAACC	11580
	ATCTCTCCAG	ATAGAGAATC	AAAATAATAG	TACTTACCAT	CAATCACTCG	CCAGTAGGTT	11640
	PCTTTGAGGT	CCCCCTTTTT	GTAGTAGGTT	CTTCCGTTTT	CTTGGACAAA	CTGCCATCCT	11700
٠	PCAGAATCAT	CTGCAAATAC	TGTACTGGTC	CCTAGCAAAC	CAAAGAAAAA	TACTGTCAGT	11760
•	CCAACTTGCA	TAGTTTTTTT	CAAAATTTTC	ATCTATATAC	CCTCCAATAT	TAAATCCACT	11820
•	CACCAGATGA	GGCGAAATTA	TAAACTTTAC	CATCGATAGT	TTGGCTACCT	GTAACCATTG	11880

CTCCAGG 11887

985

### (2) INFORMATION FOR SEQ ID NO: 147:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 11340 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCGGTATGTT	CTGGAATACT	ACCAATCTAA	GCTGGCTGTG	CCCTACAGTT	TTACAACCCT	60
GTACGAATAC	CTTAAGGAAT	ATGACCGATT	TTTCAGCTGG	GTTTTGGAGT	CTGGTATTTC	120
AAACGCTGAT	AAAATATCCG	ATATTCCTTT	ATCAGTTTTG	GAAAATATGT	CTAAGAAAGA	180
CATGGAATCC	TTTATCCTTT	ATCTACGTGA	ACGTCCCTTG	CTGAATGCTA	ATACAACAAA	240
ACAAGGTGTT	TCACAGACAA	CTATCAATCG	AACCTTATCA	GCACTTTCTA	GTCTTTACAA	300
GTATCTAACC	GAGGAGGTTG	AAAACGATCA	GGGGGAACCT	TATTTCTATC	GTAATGTAAT	360
GAAAAAAGTT	TCCACCAAGA	AAAAGAAAGA	AACCCTTGCT	GCCAGAGCTG	ААААТАТСАА	420
GCAAAAACTC	TTTCTAGGTG	ATGAAACAGA	AGGTTTTCTA	ACTTATATCG	ATCAAGAGCA	480
CCCACAACAG	CTTTCAAATC	GAGCTCTCTC	ATCATTCAAC	AAAAATAAAG	AACGAGATTT	540
AGCCATTATT	GCCCTTCTCT	TGGCATCTGG	TGTTCGCTTA	TCTGAAGCTG	TTAATCTAGA	600
TCTAAGAGAT	CTCAATCTAA	AAATGATGGT	TATTGATGTT	ACTCGAAAAG	GTTGCAAACG	660
TGACTCAGTC	AATGTCGCTG	CTTTTGCTAA	ACCTTATTTA	GAGAATTATC	TGGCCATTCG	720
GAATCAACGC	TATAAAACGG	AAAAAACAGA	TACAGCCCTT	TTTTTAACTC	TCTACAGAGG	780
TGTTCCTAAT	CGTATCGATG	CTTCTAGCGT	TGAGAAAATG	GTTGCTAAAT	ACTCAGAGGA	840
TTTTAAAGTG	CGTGTAACAC	CCCATAAACT	GCGCCATACA	CTAGCAACTA	GGCTCTATGA	900
TGCGACTAAA	TCACAAGTTT	TAGTCAGTCA	CCAACTAGGA	CATGCTAGCA	CACAAGTCAC	960
TGACCTCTAT	ACCCATATTG	TTAGTGATGA	ACAAAAGAAT	GCTCTGGATA	GTTTATGATT	1020
TTACGTATTT	TAAATTATGT	АААТАААТАТ	CAAAAAAAGA	AGTTGGCCAA	CTTCTTTTTG	1080
ATTTATCCAA	CTACCGCTTC	AGCGATTTCT	TCACGGCTAA	TACCAGCGAA	GTAGCGTGTG	1140
ATATCAATGG	TTTTTAGCGC	CTTAAGAACA	TCTTCGCGTT	CGTATTTCAC	CCCACGAAGG	1200
ACATCTTCTA	CTGCAGCAAC	GTCTTCAATA	CCAAAGAAGT	CACCATAAAT	CTTGATGTCT	1260
TGGATTTTTG	ATTCAGTAAC	GTTAGCAAAG	ACTTCAACCT	TACCACTAGT	GAATTTGATT	1320

CON CON COON	COMMANAMMO	3 CCMC 3 MMM 3	986			
	CGTTAAATTC					1380
	TGCGATTGAT					1440
TCTGGGTACT	CTTTTTTCAT	GTATTCCAAG	AGTAAATCAC	GGAATTTTTC	GACTGTGATT	1500
TTTTTTGGTA	ATTCATTGAT	AATATTGGTT	ACACGGGCAC	GGACGGATTT	CACACCTTTT	1560
GATTCAAATT	TATCTTTTGA	AACCTTAAGG	GCATTTGCGA	GGACTGACAA	ATCAACGTCA	1620
AAGAGCAAGC	AACCGTGGTG	CATGATACGG	CCGTTGATAT	AGGCTTGGGC	ATTGCCACAG	1680
AACTTCTTAC	CATCAATCTC	AAGGTCATTA	CGACCTGTGA	ACTCAGCTTT	AACCCCAAGT	1740
TGAGCCAGGG	TATTGATAAC	CGGAGTTGAG	AAGCTCTTGA	AGTCAAATGC	CTTATTTTCA	1800
TCTTCTTTGG	AGATGATCGT	GTAGTTGAGG	TTATTTAAAT	CGTGGTAAAC	AGCTCCACCA	1860
CCACTAATAC	GGCGAACTAC	CTCAATACCA	TTTTCGCGAA	CATAATCACG	GTTGATTTCT	1920
TCGATAGTGT	TCTGGTGACG	ACCAACAATG	ATAGATGGCT	TGTTAATCCA	AAGTAGGAAG	1980
ATTTGATCCT	CATCCAAAAG	GTGTTTAAAG	GCGTATTCTT	CCAAGGCAAT	ATTAAAAGCA	2040
GTGTCATTTG	AATGATTGAT	AATGTATTTC	ATGATATCCC	TTTACTTTAT	ATGATAGAAA	2100
CTGGAAATAA	CCTTCCAGTC	TAATCTATCT	TCGTTTTATT	TTTTCTTAGG	TGAATGGATG	2160
GCCATTCCTA	GAACATCTGC	AAACGCTTCG	TACATCACTT	CAGAGTAAGT	TGGGTGCCCG	2220
TGGATGGTCT	TCAGCATTTC	CTCAACAGTG	ATTTCCATTT	CGATGATGCT	TGATGCTTCG	2280
TTAATTAATT	CTGCGGCTGC	AGGACCAATA	ATGTGTACAC	CAAGGATTTC	TCCGTATTTC	2340
TTATCAGCGA	TAACTTTTAC	GAAACCTTGA	GCTGCGTCAG	ATGCAATAGC	ACGACCGTTA	2400
GCAGCAAAGT	TAAACTTACC	GATGGCAACA	TCGTATTTCT	CACGGGCTTG	TTCTTCTGTC	2460
AAACCTACTG	CTGCTACTTC	AGGGAGAGTG	TAGATGGCTG	CAGGAGTCAA	ATTCAATTTG	2520
GCAACTGCAT	GATTTCCTTT	AAGGGCATTT	TCAGCGGAAA	CTTCACCCAT	GCGGAAAGCT	2580
GCGTGAGCCA	ACATCTTAGT	ACCGTTGATG	TCACCTGGTG	CATAAATGCC	TGGAACTGAA	2640
GTTTCCATGT	ATTCGTTGAC	CTTGATACAA	CCACGATCCA	ATTCAAACTC	AACCTCTCCA	2700
ATACCTTCAA	GGTCTGGCAT	ACGACCAATT	GAAAGAAGAG	CTTTGCTTGC	GATGATATCG	2760
TCTTTTCCTT	CAACCTTGAT	ACGAAGTTGA	CCATTTTCCT	CAATGATTTC	TTGCAGTTTA	2820
GTACCAGTCA	AGATGGTCAT	TCCTTTACGC	TCAAGAATCA	AGCGAAGGTT	CTTAGAAACT	2880
TCCACATCCA	TAGCTGGAAC	TATACGGTCC	ATCATTTCGA	TAACAGTCAC	TTTTGAACCA	2940
AATGTCATGA	AGGCCTGACC	GAGTTCGATA	CCGACAACTC	CACCACCGAT	GATAACAAGG	3000
CTTTCTGGCA	CTTCGTTCAT	TTCAAGAATG	TCATCACTAG	TCATGACAAG	TGGAGATTCC	3060
ATACCAGGGA	CGTTGATCTT	GTTGACTTTT	GAACCACCAG	CAAGAATGAT	TTTCTTGGTT	3120

TCAAGCAATT	CAGAACCATT	TACCAAGACG	TTCTTGTCTT	TAGTGATTGT	ACCAATTCCT	3180
TTATGAACAG	TAACTCCGTA	GCTACGAAGA	AGTCCTGCAA	CACCACCAAC	AAGAGTATTA	3240
ACAACTTTAG	ATTTAGTTTC	TAAAAGTTTT	TCCATATCAA	CAGTGAAGTT	AGGATTTTCA	3300
ATCACGATAC	CACGATTTGC	AGCATGACCG	ATATTTTCAA	TAATTTCAGC	GTTATGAAGG	3360
TAGGTCTTGG	TTGGAATACA	TCCACGGTTT	AAGCAGGTTC	CACCAAGTTC	AGATTTCTCA	3420
ACAAGGGCAA	CCTTACCGCC	GAATTGGGCA	GCTTTAATGG	CTGCAACATA	ACCAGCAGGA	3480
CCTCCACCAA	TCACAACGAT	ATCAAAAGCA	TCATCGCTCT	TACCATCATC	GTTTGAGGTA	3540
CTTGCTACAG	GTACAGGGCT	AGCTTCTGGC	GATGCTGCTC	CAGCTGTTGG	GATGTTTTCC	3600
CTTTCTTCAC	CAAGGTAACC	GATAACTTCC	GTTACAGGGA	CAGTTTCACC	ATCTCCTTTG	3660
AGAATGGCAA	TCAAGTACCC	ATCTTCTTCG	GCTTCCAATT	CCATGCTGAC	TTTATCAGTC	3720
ATGATTTCCA	AAAGGATTTC	TCCTTCTTTT	ACAAATTCTC	CGACTTTTTT	ATTCCATTGG	3780
ACGATTTGTC	CTTCTGTCAT	ATCCACGCCG	GCTTTTGGCA	TAATTACTTC	TAAGGCCATG	3840
TCTTCCTTCC	TTTATCTATA	TCTTAAAAAT	GAATACTCTT	GCTCTTAAAT	TAACATTGAG	3900
ATTGGCGTTT	CAATCAACTC	TTTCAAGTCC	TTCATAAACT	TAGCACCAGC	CATACCATCT	3960
ACGACACGGT	GGTCAATGGT	TAATCCTAAA	CTCATGATTG	GGCGAATCAC	AATTTCACCA	4020
TTGACGACAA	CTGGCTTCTC	GATTGTCGAA	CTGACACCAA	GGATAGCTGA	GTTGGGTTGG	4080
TTAATAATCG	GACCAAAGGA	CTGAACACCA	AACATTCCCA	AATTACTGAT	TGTGAATGTT	4140
GAATTTTGTA	ACTCACTTGG	AGCCAATTTA	CCATCCAAGG	TACGGCCAAT	AACATCCTTA	4200
AAGGCTACAA	CCAGTTCTGA	AAGACTCATC	TTCTCAGCAT	TGTAAACAAC	AGGTGTCATC	4260
AATCCATTAT	CCATCCCAAC	TGCCATGGCA	AGATTGACAT	AGTTGTGAGT	GATAATAGTC	4320
TTGCCATCTT	CTGTCAATGA	AGCGTTGATG	TATGGGTGTT	TCATAAGAGT	CTTAACAACT	4380
GCAAGCGAAA	GAAGGTCTGT	TACAGTAGTC	TTCTTCCCAG	TTGCTTCCAT	GATTGGCTCA	4440
AGAACCTTCT	TACGAAGAGC	CAACATTTCA	GTCATATCAA	CTTCATAGTT	GAGGGTGAAG	4500
GTTGGCGCAG	TCAAGTAAGA	TTCAACCATG	CGTTGGGCAA	TAACCTTACG	CATTGGTGTC	4560
ATTGGAATAC	GCTCGATTTT	ACCATATGGT	GTTACGTTAT	CAGGGACTTC	TTCCACTTTT	4620
TCAATCTGAG	CAGGAGATTT	GATGCTATCG	TTTTCGATAT	TTTCAGGAAG	CAGGGCCAAA	4680
ACATCCTTCT	TCATGATTTT	ACCACGATGA	CCGGTTCCTT	GGATTTCCTG	CCAAGCAATG	4740
TTATGTTCGA	GGGCAATTCG	TTTTGCAAGT	GGCGAAATGC	GAACCACGTT	TGTGTCTTTA	4800
TAAGTTTCCA	CGTCTTCTTT	GTGGACACGA	CCGTTTGCAC	CTGAGCCAGA	AACGTCGTAG	4860

AGGTTTATCC	СТАААТСАТС	CGCTAACTTT	988 CTAGCTGCAG	GAGTCGCTCT	TAGCTTGTCA	4920
TCAGCCATGA	CCTCTCCAAT	TCTATTTATG	ATACAAAGGG	CGTCAAAAGC	GACTGAAAAA	4980
TAGGAAATCG	ACGATGGCTT	CGATGAAGCC	AAGGAGATTT	ATCTTTTTC	CGATCTTTTA	5040
GCCCGTGCTC	TAATCTAAGA	TATTAATGAC	GAAGAGCTCT	GCACCTAAAA	GATACAAAGT	5100
TTCTCGTCAG	CTTTATTTTA	TTTACATAAC	TTATCTTATG	TAACCCTATT	CTTTGTTATA	5160
AGTTTTTCGG	ATTGCATCTT	TGATACTTTC	AACTGTTGGA	ATCATTGCAT	TTTCTAGGTT	5220
TTGTGCATAA	GGCATCGGCA	CATCTTCTCC	TGCACAACGG	CGAATTGGTG	CATCTAGATA	5280
GTCAAATGCT	TCTGATTCTG	AAATAATAGC	TGAAATTTCA	CCGATATAGC	CACTTGTTTT	5340
GTGGGCATCG	TTGACCAGAA	CAACCTTACC	AGTCTTCTTC	ACTGAGTTTA	TGATGATATC	5400
CTTATCAAGC	GGAACAAGGG	TACGTGGGTC	AACAATTTCA	ACTGAAATTC	CTTCTTCTGC	5460
TAATTCTTCA	GCAGCTTGAA	CCACACGGCG	AAGCATTTTT	CCATAAGTAA	CAACTGTTAC	5520
ATCCGTTCCT	TGGCGTTTGA	TTTCACCAAC	CCCAAGTGGA	ATTGTGTAGT	CTGGATCAAC	5580
TGGCACTTCC	CCTTTTTGGT	TAAATTCTGA	CTTGTACTCA	AGTATAATAA	CTGGGTTGTT	5640
ATCACGGATA	GAAGACTTAA	GCAGGCCTTT	CATGTCCGCA	GGTGTTCCAG	GTGCCACAAC	5700
CTTAAGTCCT	GGAATGTGAG	TAAACCAAGA	CTCTAGAGAT	TGTGAGTGCT	GGGCGGCAGA	5760
GCCAACTCCG	TTACCAGCTG	CACAACGAAC	AGTCATTGGA	ACCTGACCTT	TACCACCAAA	5820
CATGTAACGT	GTTTTAGCAG	CTTGGTTGAC	GATATTGTCC	ATGGCAATAA	CAGAGAAGTC	5880
CATGAAGGTC	ATATCGACGA	TTGGACGAAG	TCCTGTCATG	GCTGCTCCTG	CTGCTGCTCC	5940
AGAGATGGCA	GCTTCAGAAA	TCGGACAGTC	ACGGACACGT	TCTGGACCAA	ATTCTTCAAG	6000
CATTCCAACA	GAAGTACCGA	AGTCTCCTCC	GAAGACACCG	ACGTCTTCTC	CCATCAAGAA	6060
CACATTTTCA	TCGCGACGCA	TTTCCTCAGA	CATAGCAAGG	ATAATGGTGT	CACGGAAGGA	6120
CATTGTTTTT	GTTTCCATTT	TATCTCTTTC	TCCTTAGTCT	GCGTAAATAT	CTTCAAAGGC	6180
TGATTCAAGC	GGTGGGAATG	GGCTTTCCTC	TGCAAATTTA	ACAGAAGCTT	CTACTGCTTC	6240
CTTTACTTGC	GCTTGGATTT	CTTCCAATTC	TTCGGCACTT	GCAATGTTAT	TTTCAATAAG	6300
GTAATTGCGG	AGGTTTTCGA	TTGGATCTTT	TTGTTTCCAC	AATTCCACTT	CTTCACGCGT	6360
ACGATATTTA	CCAGGGTCAG	ATGATGAGTG	ACCGAGCCAG	CGATAAGTTA	CACTTTCAAT	6420
CAAGACTGGA	CCATTGCCAC	TGCGAACATG	GTCCACAGCT	TTCTGAAATC	CTTCATAGAC	6480
ATCGATGACA	TTGTTACCGT	CTTCGATGAA	CATTCCAGGA	ATTCCATAAG	CGGCGCTACG	6540
TTGATGGATA	TGTTCTATAT	TGGTCATTTT	CTTGATATCC	GCAGAGATAC	CGTAACCGTT	6600
GTTAATGCAA	TAGAAAATGA	CTGGCAGGTT	CCAGATAGAA	GCCATGTTCA	CTGCTTCGTG	6660

GAAAACACCT	TCATTGGTCG	CACCATCTCC	AAAGAAGCAG	ACAACGATTT	TACCGGTATT	6720
TTGCATTTGC	TGACTGAGGG	CTGCACCGAC	AGCGATCCCC	ATACCACCAC	CTACGATACC	6780
ATTGGCACCA	AGGTTCCCAG	CATCAAGGTC	AGCGATATGC	ATAGATCCAC	CTTTCCCTTT	6840
ACAGGTTCCA	GTGTATTTAC	CAAGGATTTC	AGCCATCATT	CCGTTGAGGT	CAATCCCTTT	6900
AGCAATAGCT	TGCCCGTGTC	CACGGTGGTT	TGAGGTAATC	AGATCATCTG	GATTGAGAGC	6960
TAACATAGCC	CCCACGTTAG	CTGCCTCTTC	ACCAACAGAA	AAGTGCGTCA	TTCCTGGCAC	7020
TTTCCCTTTC	TTTACTAATT	GTGCAATTTT	TAAGTCCATG	CGACGGATTT	CTTCCATCTT	7080
ACGGAACATT	TCTAGCAAAA	GATTTTTATC	TAAAGTTGAC	ATCTTCTTGC	CTTTCTAACT	7140
TTCTTCTTAC	CTTACTATTT	TACCGCTTTT	GGCAAATACT	GTCAAAGTTT	TTCTAAAAGA	7200
AATTTCACAA	AATAAAAAAG	AAAACCCCGT	GAAAACAAGG	GATTTTCTTG	TCAAGAATAT	7260
TTTTTCACAA	ACTTTTTAGC	ATTTGGATTT	TGCTAAAGAT	TCAAATCTCT	TCATAATCAC	7320
AGTTAAACGC	CAACGGTAGA	GCGCCCGCT	CACAATCAAA	СТААТААТСА	AGCCGATCCA	7380
GTAAGAATAA	GCTCCAAAAT	CTGTTAGGGA	ATCAAATAGC	GTAnCACAGG	GATTGCTACG	7440
CCCCAATAAC	CAAGCAAACC	AAGGTAAAAA	GGAATAACTG	TATCCTTATA	CCCCGCAAA	7500
ATTCCCTGAA	GCGGCGCCGC	AAAGGTATCT	GCTAACTGGA	AGAAAAGACT	ATAAGTTAAA	7560
AAACGCACTG	TCAAATCGAT	AAATTTTGGG	TCGTTACCAT	AAAGACTGGC	CACATTTCCC	7620
CTAAAAATGT	AAAGGAAGGT	TAAGGTGAAG	GCCGCAAAAA	TGAGGGCAGT	CCATCTTCCT	7680
AGACCAATAT	AGGTTTTCGC	ATCATCAAAT	CGCTTGGCTC	CCACTTCATA	GGAAACGACA	7740
ATAGCCATAG	CCGATGAGAT	ACTCATAGGA	AAGGCGTACA	TAAGACTTGA	AAAGTTCATA	7800
GCTGACTGGT	GACTAGCTAT	AATCAAGGGC	GAAAACTTAG	CCATAATCAA	GCCAACCACT	7860
GAAAAGATAG	CCACTTCCGC	GAAGACAGTT	CCCCCAATAG	GCAGACCTAA	ACGAACTCCT	7920
TCCTTAATTT	TATCCATATT	AAGTGGAATT	CGTTTCTCAA	GGTGTAAGGC	TTTGAGCTTC	7980
TCCTGTTTAA	ATAAAACCAG	AACAGAAATC	CCAAGCAAGA	CCCAGTAGGC	CAAGGATGTT	8040
CCTAAACCAG	CACCAGCCCC	TCCCAGTTCT	GGAACACCAA	AGGCACCGTA	AATCAAGAGA	8100
TAGTTAAATC	CGCTATTGAG	AGGGAGTAAC	AAAAGCATGA	GGTACATGGA	CAGTTTGGTC	8160
AAGCCCAGCG	AATCCAGCAA	GGAACGAATG	ACGCTAAAGA	GCAACAAGGG	GATAATCCCG	8220
ATAGATAAAA	ACCAAAGATA	GCGAACCGCT	ACTGCCGCTA	CTGCTGCTTC	TAACCCAATA	8280
TGATTCAAGA	TTATTGGTGC	CAAGAAAAGT	ACCATCCCCA	GCAAGACCAC	AGATAGGCCC	8340
AAGGCCAAAT	AAATAAATTG	GTAAAAATCA	GACGCAACTT	CTTCCTTTTT	GCCTCGACCA	8400

990 AGATGGTGAC CAATGATAGG CACCAAGGCT GACACAATCC CTGTTAGAAA TGTAAAGAAA 8460 GGATTCCAGA TACTGGTTGC CATAGATACA CCAGCCAAGT CCATAGTGTT GTATTGACCT 8520 GTCATTGCAG TATCAACAAA AGAGGCAGAA TAATTGGCAA ATTGGTAGAT CAGGATTGGG 8580 AAGAAAATTT TTAAAAATAA TACTAACTTC TCTCGTAAAC ACTTTGTCTT ATACATACTT 8640 CTCTTTCTAT TCTGATTTAT CTAAACCAAA GAGTTTCAGA CCATAGTTTT TCAAACTTAG 8700 CGGAGGTTTA TTAGATTTTG AAGTAGTATG CCAACACGCA CATGTACGAC AATAATAGCT 8760 TCTAACTAAA CCTCCGTTAT CATATTGAAC CGCATGGTCA GCTTTTTCTT TAGTTTCATA 8820 TTGAATTTTG GAACGATTAG CTGCGGGACA GTAAATTCCA CTATTAGATT TCGCTTGTCT 8880 CTCCCTACGT TTTCGAAAAT AATTCATATT CTAACTCCTA TCAAGCTTGA TAGACGATTT 8940 GTCCCTTACA GATGGTATAT TTAACCTGCC CTTTTAAGGT TTCACCGATG AATGGTGAAT 9000 TAGCTGCTTT GGAAGCAAAA TGGGAGTCCA CAAAGCGGTC AGCCTTGGCA TCAAAAATAG 9060 TGATATCTGC TGGACCATTC TCAGCCAAGT AACCTGCTTC AAAGTTGTAA AGCTTGGCTG 9120 GGTTGTATGT CATTTTTCA AGTAATTCCA TCAAGCTCAA CTCACCAGCT TCTACTAAAT 9180 AGGTCAAGCT GAGAGACAGG GATGTTTCTA AGCCAGTCAT ACCAGATGGC GCTTTGGTAA 9240 TATCCTCAAC ATTTTTTCA TCTACATGAT GAGGCGCGTG GTCAGTCGCA ATAACTGTGA 9300 TGACACCTGA TTTGAGACCT TCGATAACGG CACGACGGTC TGATTCCAAA CGAAGCGGTG 9360 GATTCATCTT AGCATTGCTA CCTTGTGTTA AAAGAAGTGC TTCTGTCTTA GAGAAATGCT 9420 GTGGCGCTAC TTCTGCTGTG ACTTCTGCAC CTAACCCCTG AGCAAACTCC ACTACTTTAA 9480 CACTTTCTTC CTTAGACAAA TGCTGGATGT GAACATGGGC TTTAGTTGCA TAGGCAATCA 9540 TGACATCACG CGCCATCATA GCGTACTCAG CCACCCCAGT AGCACCGCAG ATATGGAAAT 9600 GTTCTCTAGC AATATTTTCA TTAAAGCCAA GAACACCGTT CAAACCTGGA TCTTCCTCAT 9660 GAAGGCTGAT AAAGGTATTG AGTTTTTTGG CTTCCTCCAT GGCTTCCTTG ACAATCTTAC 9720 TGCTCTCAAG CGGAATACCG TCATCAGAGA AACCAACCGC ACCAGCTTCT AAGAGTGCCT 9780 TAAAGTCAGT CAAGTTTTTA CCATTAAAGT TTTTAGTAAT GGTCGCAACT GTCTTGACAT 9840 TAATCTTCTC TTTGGCAGCT GACTGGAGAA CTGCTTGCAA AGTCTCCACG TCTGAAATGG 9900 TTGGACTGGT ATTAGCCATC ATGACGACAG TAGTAAAACC ACCTGCAGCG GCTGCTAGGG 9960 CACCAGTATG AATGTCTTCT TTATGTGTTT GACCAGGTTC ACGGAAATGA ACATGAATAT 10020 CGACCAAGCC AGGAGCAACC ACAAGACCAG TAGCATCAAT CGTTTCTGCT CCTTCTTCCG 10080 TGATCTCAGA CGCAATTTTG ATAATTTTCC CATCTTGAAC TAAGACATCA CAAACTTGAT 10140 CCAAACCAGA CTTGGGATCC ATTACACGAC CATTTTTGAT TAGTAGCATC TGCTTTCTCC 10200

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ТТТАТТСАТА	GAAATCAACT	TGGGTATCCA	ACAATTTATC	CCCATCATAA	ACAAACTTGG	10260
CTGAAAAGAA	GGGTTTATCC	TCTAAAAGCC	ACTCAACAAA	GGTGTGGTCA	CCTTCCCAAG	10320
TCGGCTTGCT	CAAAACCTCA	TCATAGGGAA	CCCATTCTAG	CGTCCCCTCA	TTGCAGTCAA	10380
TCAAGTCGCC	CTCAAACTCC	GTCACCTTAA	AAACATAGGT	GTACCAGTCT	AAATCTGGTG	10440
TAAATTCAGG	AAAAGTGATG	ACACCTTTTA	GAACTGGCTT	GGCTTTGAGC	CCTGTTTCTT	10500
CAAGGATTTC	ACGCGCCGCG	CATTCCTGGG	GCGTCTCTCC	TCTCTCTAGC	TTACCACCCA	10560
CACCAATCCA	TTTCCCTTCA	TGGACATCAT	TGGGTTTCTT	ATTACGATGG	AGCATGAGCA	10620
GTTCTTTCCC	ATTATCAATG	TAGCAAATCG	TCGCTAACTG	AGGCATATTT	TCTCCTTATC	10680
TAAGCCAATC	GATTGGCTCT	TGTCCTGTCT	CTTTTAAGAA	TGCATTGGCC	TTGGAAAAGG	10740
GCTTGGAACC	CCAAAATCCT	CTATAAACCG	ACAAAGGACT	TGGATGGGCT	GATTCGATAA	10800
TCAAGTGATG	AGGATTGGTA	ACTAATGCCT	TCTTCTTACG	TGCATAAGCT	CCCCAGAGTA	10860
CAAAAACGAC	TGGTCTATCT	AGATGATTGA	CCACCTGAAT	CACAGCATCA	GTAAAAGGCT	10920
CCCAGATTŤG	ACCAGCATGA	CCATTGGCCT	GTCCAGCAGG	AACAGTCAAA	CAAGCATTAA	10980
GAAGCAAGAC	TCCTTGCTCA	GCCCAAGCTG	TCAAATCATG	AGATTTCTTA	ACTCCGATAT	11040
CATCTGACAA	TTCTTTCAAG	ATATTTTGCA	AGGATGGTGG	AGCTGGGATA	GAGTCAGGTA	11100
CAGAAAAACT	CAAGCCCTGC	GCTTGACCTG	GTCCGTGATA	GGGGTCTTGC	CCTAGAATTA	11160
CCACCTTAAC	TTCTTCAAGC	AGTGTTGTCA	AGAGAGCCTG	AAAAACCTTT	TCCTTGGGTG	11220
GATAAATAAT	CCCCTGAGAA	TAGACCTGCT	CCATAAACTG	ATTGATTTTC	CCGAAATAAC	11280
CCTCAGGTAA	TTGCGCCTTA	ATCAAAGCAT	GCCAAGACGA	GTGTTCCATA	GCCGACTCGG	11340

### (2) INFORMATION FOR SEQ ID NO: 148:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12127 base pairs
    (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

AAAAAATAGA CTTGTTAGAC TATAAATGTA GTAAGCCTAC ACAAGAAAAA TACATAGAGA 60
TAAAAGGTGAT TATTATGAAA TTCAAAAAAA TGCTTACTCT TGCAGCCATT GGCTTATCAG 120
GATTTGGGCT TGTTGCCTGT GGCAATCAGT CAGCTGCTTC CAAACAGTCA GCTTCAGGAA 180
CGATTGAGGT GATTTCACGA GAAAATGGCT CTGGGACACG GGGTGCCTTC ACAGAAATCA 240

			992			
CAGGGATTCT	CAAAAAAGAC	GGTGATAAAA		CACTGCCAAA	ACAGCTGTGA	300
TTCAAAATAG	TACAGAAGGT	GTTCTCTCAG	CAGTTCAAGG	GAATGCTAAT	GCTATCGGCT	360
ACATCTCCTT	GGGATCTTTA	ACGAAATCTG	TCAAGGCTTT	AGAGATTGAT	GGTGTCAAGG	420
CTAGTCGAGA	CACAGTTTTA	GATGGTGAAT	ACCCTCTTCA	ACGTCCCTTC	AACATTGTTT	480
GGTCTTCTAA	TCTTTCCAAG	CTAGGTCAAG	ATTTTATCAG	CTTTATCCAC	TCCAAACAAG	540
GTCAACAAGT	GGTCACAGAT	AATAAATTTA	TTGAAGCTAA	AACCGAAACC	ACGGAATATA	600
CAAGCCAACA	CTTATCAGGC	AAGTTGTCTG	TTGTAGGTTC	CACTTCAGTA	TCTTCTTTAA	660
TGGAAAAATT	AGCAGAAGCT	TATAAAAAAG	AAAATCCAGA	AGTTACGATT	GATATTACCT	720
CTAATGGGTC	TTCAGCAGGT	ATTACCGCTG	TTAAGGAGAA	AACCGCTGAT	ATTGGTATGG	780
TTTCTAGGGA	ATTAACTCCT	GAAGAAGGTA	AGAGTCTCAC	CCATGATGCT	ATTGCTTTAG	840
ACGGTATTGC	TGTTGTGGTC	AATAATGACA	ATAAGGCAAG	CCAAGTCAGT	ATGGCTGAAC	900
TTGCAGACGT	TTTTAGTGGC	AAATTAACCA	CCTGGGACAA	GATTAAATAA	AATGTTTGCT	960
CCATAAATCT	CTAAAGAGAT	GCAGACGTTT	CATCGTACAA	TAAGATAAAG	AAGGCAAGTA	1020
GGGAGGTGTC	GTATCTCCCT	TACTTTCTTC	ACTAGAAAGG	ACAAGATGTG	ACAAAACAAG	1080
CCTTCAAAGA	AGCAGTTTTT	AGGGCAATTT	TTTTCATGAG	TGCAACAGTA	GCTGTTGTAG	1140
CTATTTTGCT	AATCTGTTTC	TTTATTTTTA	GTAATGGCTT	ACCTTTCATA	GCTAACTACG	1200
GCTTTGCCCG	TTTTTTATTA	GGCAGTGATT	GGTCGCCAAC	GAACATTCCG	GCAAGCTATG	1260
GTATTTTACC	AATGATCGTT	GGTTCCTTAT	TAATTACCTT	AGGAGCGATT	GTGATTGGGG	1320
TGCCAACAGG	CATCTTGACA	TCGGTGTTTA	TGGTTTATTA	TTGTCCAAAG	CCCGTCTATG	1380
GCTTCTTAAA	ATCAGCTATC	AACTTGATGG	CAGCCATTCC	ATCTATTGTT	TATGGTTTTT	1440
TCGGCCTACA	ATTATTGGTG	CCTTGGATTA	GAAGCTTTTT	AGGAAATGGC	ATGAGTGTCC	1500
TAACCGCTTC	GTTACTATTA	GGAATAATGA	TTTTGCCAAC	CATTATCAGT	TTGTCAGAAT	1560
CTGCTATCCG	AACAGTTCCC	AAAACGTATT	ATTCTGGTAG	CTTGGCTCTA	GGAGCTAGTC	1620
ATGAACGGAG	TATTTTTAGT	GTCATCTTGC	CAGCTGCGAG	ATCTGGTATT	TTATCAGCAG	1680
TTATTTTAGG	AATCGGTCGC	GCAGTAGGTG	AAACCATGGC	AGTTATTTTG	GTGGCAGGCA	1740
ACCAGCCGAT	TATTCCAAGT	GGACTCTTTT	CAGGAACCAG	AACCTTAACA	ACCAATATTG	1800
TTCTGGAAAT	GGCTTACGCA	TCAGGTCAGC	ATAGGGAAGC	CCTTATTGCA	ACCTCAGCAG	1860
TTCTCTTTTT	CCTTATTCTC	TTGATTAATG	CCTACTTTGC	CTACTTGAAA	GGAAAATCAT	1920
CTTATGAGTA	AATACCTGCT	AAAACTTCTC	GTTTATTGTT	TTTCAGCTTT	AACCTTTGGC	1980
TCTCTCTTTT	TAATCATTGG	TTTTATCCTC	ATCAAAGGCT	TACCTCATCT	AAGTCTATCC	2040

CTCTTTTCTT	GGACTTATAC	TTCTGAGAAC	ATTTCCCTTA	TGCCAGCGAT	TATTTCCACC	2100
GTTATTCTGG	TCTTTGGTGC	TCTTCTTTTA	GCCTTGCCCA	TAGGGATTTT	TGCTGGTTTT	2160
TATCTTGTGG	ААТАТАСААА	AAAAGATTCC	CTTTGTGTTA	AAATCATGCG	ATTGGCCTCA	2220
GATACCTTAT	CTGGGATTCC	TTCCATTGTT	TTTGGTCTGT	TTGGCATGCT	CTTCTTTGTA	2280
GTCTTCTTAG	GTTTTCAATA	CTCTCTGTTA	TCAGGAATCT	TAACCTCAGT	TATCATGGTG	2340
TTGCCAGTCA	TTATTCGCTC	AACAGAAGAA	GCCCTTTTAT	CTGTTAGTGA	TAGCATGCGT	2400
CAAGCAAGTT	ATGGACTTGG	GGCAGGTAAG	TTACGGACTG	TTTTTAGAAT	TGTTCTACCA	2460
GTTGCCATGC	CAGGTATTTT	AGCTGGAGTG	ATACTAGCTA	TTGGCCGTAT	CGTTGGTGAA	2520
ACAGCTGCCC	TCATGTATAC	ATTAGGTACC	TCTACCAATA	CGCCAAGTAG	TCTCATGTCT	2580
TCAGGCCGTT	CTCTAGCCCT	ACATATGTAT	ATGCTGTCAA	GTGAGGGGCT	ACATGTCAAT	2640
GAAGCCTATG	CTACCGGCGT	GATTTTGATT	ATTACTGTTT	TAATGATAAA	TACTCTATCA	2700
AGCTTATTAT	CTCGAAAACT	TGTGAAAGGA	GCTTCCTAGT	ATGGGAACAT	TTTCAGTCAG	2760
ACACCTAGAC	TTATTTTACG	GGGATTTTCA	AGCCTTAAAA	AATATTTCGA	TTCAATTACC	2820
AGAAAGACAG	ATTACTGCCT	TGATAGGCCC	ATCTGGTTGT	GGCAAATCAA	CTTTTCTAAA	2880
AACCCTTAAC	CGGATGAACG	ATTTGGTTCC	TTCTTGCCAT	ATTGAAGGCC	AAGTCCTCTT	2940
AGATGAGCAA	GATATTTATA	GTAGCAAATT	CAACCTTAAT	CAGCTACGTA	AGCGTGTAGG	3000
GATGGTTTTT	CAACAGCCTA	ATCCCTTTGC	CATGTCTATC	TATGATAACG	TGGCTTATGG	3060
CCCAAGGACA	CATGGTATTC	GAGACAAAAA	ACAATTAGAT	GCCTTAGTGG	AGAAATCTTT	3120
AAAAGGGGCA	GCCATTTGGG	AAGAAGTCAA	AGATGATCTT	AAAAAGAGTG	CCATGTCCTT	3180
ATCTGGCGGT	CAGCAGCAAC	GCCTTTGCAT	TGCGCGAGCT	TTAGCAGTAG	AACCTGATAT	3240
rctgttaatg	GATGAGCCGA	CTTCAGCCTT	AGACCCTATC	TCCACTTTAA	AAATTGAAGA	3300
CCTCATTCAG	СААСТААААА	AGGATTATAC	GATTATCATT	GTTACCCATA	ACATGCAACA	3360
AGCTTCACGT	ATTTCAGATA	AAACTGCTTT	TTTCTTAACA	GGAGAAATTT	GCGAATTTGG	3420
AGATACCGTT	GACGTGTTTA	CCAATCCAAA	AGATCAGCGC	ACAGAAGACT	ATATTTCAGG	3480
ACGGTTCGGA	TAAGGAAGGA	AAAACCTATG	AGAAATCAAT	TTGACTTAGA	ATTGCATGAA	3540
TAGAACAAT	CCTTTTTAGG	ACTAGGGCAA	CTTGTCCTTG	AAACAGCTTC	AAAAGCCTTA	3600
CTGGCCTTAG	CCTCCAAAGA	CAAGGAGATG	GCAGAGCTAA	ТТАТСААТАА	GGATCATGCT	3660
ATCAACCAAG	GTCAAAGCGC	TATCGAATTG	ACCTGTGCCC	GTTTGTTGGC	CTTGCAGCAG	3720
CCACAAGTGT	CTGACCTTCG	ATTTGTGATT	AGCATCATGT	CTTCTTGTTC	AGACCTTGAA	3780

CCM3 MCCC3 C	1001m1maga	1 0001 mmooo	994			
					AGAAAATCAA	3840
CTAGCCCCTG	ACGAAGAACA	GTTACACCAA	ATGGGTAAAT	TATCCCTCAG	CATGCTAGCC	3900
GATTTATTGG	TTGCCTTTCC	TTTGCACCAA	GCCTCAAAAG	CTATTAGTAT	TGCTCAAAAA	3960
GATGAACAGA	TTGACCAATA	TTATTATGCC	TTATCAAAGG	AAATCATTGG	ACTTATGAAA	4020
GACCAAGAAA	CCTCAATTCC	CAATGGAACT	CAATACCTTT	ATATCATAGG	GCATCTGGAA	4080
CGCTCGCTGA	TTACATTGCT	AACATTTGTG	AACGCCTAGT	CTACCTAGAA	ACAGGAGAAC	4140
TAGTGGATTT	GAATTAATTC	AACTAATCCT	TAAAAGAGAA	GAGTACGATT	AAGTACTCTT	4200
TTTTATGGTT	GTAAAAAAGT	TCATTTGACC	AATTTAAGCA	GTGTAGATAG	TGAGGAGTTG	4260
TTTCAATTCT	ATCGTGAACG	AGGGAATGCT	GAAAACTTTA	TCAAAGAAAG	GAAAGCAGGA	4320
TTCTTTGGGG	ATAAGACAGA	TAGTTCGACC	ATGATTAAGA	ATGAAGTACG	TATGATGATG	4380
GGCTGTCTGG	CTTATAATCT	CTACCTCTTT	TTAAAGCAGC	TAGCTGGTGA	TGAAGTAAAG	4440
PCCTTGACTA	TCAAGCGTTT	TCGACGTCTC	TTCCTTCATA	TTGCCGGAAA	ATATGTCTCT	4500
ACTGCTAGAC	GACATATTCT	CAAATTCTCA	AGTCTATACG	CCTATTCAAA	ACAGTTTCAA	4560
GCCTTATTTG	ATACAATCTG	CCAGATAAAT	CTGATACTCC	CTGTTCCATA	TAGAGCTAGA	4620
GGGCAGGGGA	AAACATGCCT	AACAGAATAA	GTCACCTTAT	TTTAAAAATC	GAGCATCAAA	4680
CCAAGGGAGG	AGTCTGCCCT	TTTTTAGGAA	AAAATCAAGA	CAAATCTCCT	CAATTATGTC	4740
rcgaacatca	GAAATTAAGC	AAAATCACCA	GAAGGACAGT	ATTTCAACTA	GCTTTTCTGG	4800
PAATTTTTGA	ACTGTGTAGT	TCGTTAGTGC	CAGATATGAA	TAATTTGGGA	TGATAAATCT	4860
TTCTTCCTCA	GGTAGCCTAT	CATAATACTC	TTCAAAAATC	ТТАТСААААА	CACTCTCTTT	4920
CTTTTGGGCG	ATAGTTTCAT	CTTCGTATGT	AGGAGTCCTC	ATCAAGAAAT	ACTTCAATTC	4980
PAGGTATTCC	TTATCCAACT	CTATATAACT	TGGCATCAAC	TTGTAATCTT	CAACCCCCAA	5040
ACGTTCAGCA	ATATATTTA	ACTTTGTTAG	TATTGGTCTG	GATTCTCCAT	TTTCAATTCT	5100
ATTAATTGA	CGGATACTTA	ATTCAGACTC	ATCACCACAA	AATTCTGAAC	GACTGATTI r	5160
TTTAGCCAAA	CGTAATCTTT	TAATTTTTC	GCCAAACTCT	CGCAACCTAC	AAGAACTTCC	5220
PGAGTTGTTT	ACCTCTATTA	TAAGCATATA	CTGAATCAAA	СТАТСТАТСА	GATTTCTTCT	5280
CACTTTAACT	AAAGACTAAG	AGTTTATCCC	TTCGTCTCGG	TTTTTGTGTA	TTTTTCCACC	5340
ATACCCCAGT	AATGCAAGTG	CAAAATCCCC	TAGAATATGA	TAGAATAAGA	GAAAGAACTC	5400
TATCAAGGAG	GAAATCATGG	AAAAACAAAC	CGTCGCCGTC	TTGGGGCCTG	GTTCTTGGGG	5460
ACCGCCCTT	TCACAAGTCT	TAAATGACAA	TGGACACGAG	GTACGTATTT	GGGGAAATCT	5520
CCCGAGCAA	ATCAATGAAA	TTAATACACA	ССАТАСТААТ	AAGCACTACT	TTAAAGATGT	5580

CGTTCTAGAC	GAAAATATCA	TTGCCTACAC	CGACTTAGCA	GAAACATTGA	AAGATGTGGA	5640
TGCGATTTTG	TTTGTTGTCC	CAACAAAAGT	GACACGACTT	GTTGCCCAGC	AAGTTGCACA	5700
AACCTTGGAC	CATAAGGTTA	TCATCATGCA	CGCATCAAAG	GGATTAGAAC	CTGATAGCCA	5760
TAAACGATTA	TCAACCATTC	TTGAAGAAGA	AATTCCTGAA	CATCTCCGTA	GTGATATCGT	5820
CGTTGTTTCA	GGGCCTAGTC	ATGCAGAAGA	GACCATTGTG	CGTGACCTAA	CTTTAATAAC	5880
TGCTGCTTCT	AAAGATTTAC	AAACAGCTCA	ATACGTTCAG	AAGCTATTTA	GTAATCACTA	5940
CTTCCGACTT	TATACCAATA	CGGATGTTAT	CGGGGTTGAA	ACTGCTGGTG	CTCTTAAAAA	6000
TATTATTGCT	GTCGGTGCTG	GAGCTTTACA	TGGTCTTGGA	TTTGGTGATA	ATGCTAAGGC	6060
AGCCATCATC	GCTCGAGGTT	TAGCAGAAAT	CACCCGCCTA	GGGGTAGCAC	TCGGGGCCAG	6120
TCCATTGACC	TATAGCGGCT	TATCTGGTGT	GGGAGATTTG	ATCGTAACGG	GAACTTCCAT	6180
CCACTCTCGT	AACTGGAGAG	CTGGAGATGC	TCTCGGACGA	GGAGAATCCC	TAGCTGATAT	6240
AGAAGCTAAT	ATGGGCATGG	TAATCGAAGG	AATTTCAACG	ACTCGAGCAG	CCTATGAACT	6300
AGCCCAAGAA	CTTGGAGTCT	ATATGCCCAT	TACACAGGCT	ATTTACCAAG	TTATTTATCA	6360
CGGAACCAAT	ATCAAAGATG	CCATTTATGA	CATCATGAAC	AATGAATTTA	AAGCAGAAAA	6420
TGAGTGGTCT	TAACCCTCTA	TAGAAAGGAT	TTTTATGACA	TCAAAAGTTA	GAAAGGCAGT	6480
CATCCCTGCT	GCTGGACTAG	GAACTCGATT	TTTACCAGCA	ACCAAGGCCC	TTGCCAAAGA	6540
AATGTTGCCA	ATCGTAGACA	AACCAACTAT	CCAGTTTATC	GTGGAAGAAG	CTCTCAAATC	6600
AGGTATTGAA	GATATTCTAG	TTGTCACTGG	TAAATCAAAA	CGTTCTATTG	AGGACCACTT	6660
TGATTCAAAC	TTCGAATTGG	AATATAACCT	CAAAGAAAAA	GGGAAAACAG	ATCTTTTGAA	6720
GCTAGTTGAT	AAAACAACTG	ACATGCGTCT	GCATTTTATC	CGCCAAACTC	ATCCACGCGG	6780
TCTCGGAGAT	GCTGTTTTGC	AAGCCAAGGC	TTTCGTCGGA	AATGAACCTT	TTGTCGTTAT	6840
GCTTGGTGAT	GACTTGATGG	ATATCACAGA	CGAAAAGGCT	GTTCCACTTA	CCAAACAACT	6900
CATGGATGAC	TACGAGCGTA	CCCACGCGTC	TACTATCGCT	GTCATGCCAG	TCCCTCATGA	6960
CGAAGTATCT	GCTTACGGGG	TTATTGCTCC	GCAAGGCGAA	GGAAAAGATG	GTCTTTACAG	7020
TGTTGAAACC	TTTGTTGAAA	AACCAGCTCC	AGAGGACGCT	CCTAGCGACC	TTGCTATTAT	7080
CGGACGCTAC	CTCCTCACGC	CTGAAATTTT	TGAGATTCTC	GAAAAGCAAG	CTCCAGGTGC	7140
AGGAAATGAA	ATTCAGCTGA	CAGATGCAAT	CGACACCCTC	AATAAAACAC	AACGTGTATT	7200
TGCTCGTGAG	TTCAAAGGGG	CTCGTTACGA	TGTCGGAGAC	AAGTTTGGCT	TCATGAAAAC	7260
ATCCATCGAC	TACGCCCTCA	AACACCCACA	AGTCAAAGAT	GATTTGAAGA	ATTACCTCAT	7320

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CCAACTTGGA AAAGAATTGA CTGAGAAGGA ATAACAAAAT CATTTATATA AAGATTAGCC 7380 ACACATAAAT TAAGTAAATT CTCTACTTGA ATCTACCTAT TTAATAAAAA CTAATGAAAA 7440 CGCTATACTT GTATTTGTTT TTTCATTAAA ATAAGAGTAG AATAAATTAG TATAGTAAAA 7500 CAAAAAAGCA CCGAATCGGT GCGCACTTTT TCAAGTTGTG TACGGACAAA GCCTTATTTT 7560 AACTTTGCTA TGTTGTTTCT AATGGTTCCA AAATAATAAA TAATTTTAAA TTTGACTTAA 7620 CTGTTGGAGT AGTCATGGTT AAATTAAATC AACCGAGCCG AACATAAGTT GTTTAATTTT 7680 GTGGAAGCTA TTAATAAAAA TATAATAAGG GAGAAAGATA GGTGTAATTT TAATTTTAAA 7740 GTAATTGCGG ACACTATCAA AGAAAAAGAT TATGGAGAAC AAATTTGTAG AATTTATCGA 7800 AAACAATAAA AAAGTAATCA TTTCATCAGT TGCAGTTGGT GTTGTATTGG TATTAGGGTT 7860 TGGATGGTAT TCATATAACC AACAACAAGC AGAACAACAA GCAAAAATTG TACAATTAGA 7920 AAAAGATAGC AAATCAGACA AAGAACAAGT TGATAAACTA TTTGAATCAT TTGATGCATC 7980 TTCAGATGAA TCTATTTCTA AATTAAAAGA ACTATCTGAA ACTTCACTTA AAACCGATGC 8040 AGGTAAAGAC TATCTTAATA ACAAAGTCAA AGAATCATCT AAAGCAATTG TAGATTTTCA 8100 TTTGCAAAAA GGTTTGGCTT ATGATGTTAA AGATTCAGAT GACAAATTTA AAGATAAAGC 8160 AACTCTTGAA ACAAATGTAA AAGAAATTAC AAAACAAATT GATTTTATCA AAAAAGTTGA 8220 TGAAACTTTT AAACAAGAGA ATTTGGAAGA AACTCTTAAA TCTCTAAATG ATCTTGTTGA 8280 TAAATATCAA AAACAAATCG AACTTTTGAA GAAAGAAGAA GAAAAAGCTG CTGAAAAAGC 8340 TGCTGAAAAA GCAAAGGAAT CTTCTAGTCA AAGTAATTCT TCTGGTAGTG CTTCTAATGA 8400 GTCTTATAAT GGATCTTCCA ATTCAAATGT AGATTATAGT TCATCTGAAC AAACTAATGG 8460 ATATTCAAAT AATTATGGCG GTCAAGATTA TTCTGGTTCA GGAGATAGTT CAACAAATGG 8520 TGGATCATCA GAACAATATT CATCTAGCAA TTCAAACAGC GGAGCAAATA ATGTCTACAG 8580 ATATAAAGGC ACTGGTGCTG ACGGCTATCA AAGATACTAC TACAAAGATC ATAATAATGG 8640 AGATGTGTAT GATGACGATG GAAATTACCT TGGGAACTTT GGTGGCGGCA TTGCAGAACC 8700 TAGTCAACGC TAATAACTAT TTTAGAGCTG TGTTGTTTCG AATGGTTCCA AAACACATTA 8760 AAAGCTACTC ATTTTTAAG TAGCTTTTTT CTTATTCAAG TTTACATATT ATACTCAATG 8820 AAAATCAAAT TCAAACCACG TCAGCATCGC CTTACCGTAG GTATGGTTAC TGACTTCGTC 8880 AGTTTCATCT ACAACCTCAA AACCATGTTT TGAGCTGACT TCGTCAGTTC TATCTACAAC 8940 CTCAAAGCAG TGCTTTGAGC AACCTGCGGC TAGCTTCCTA GTTTGCTCTT TGATTTTCAT 9000 TGAGTATTAG TCGTCACAAT CCCATTCCCT TGTAGAAAAG CAAAATGGCG AGTCCTACGA 9060 ACAAGACTAC CGCTCCTAAT CTCTGGCTGG TGTTATACAT CCGTTTTTCT CCTCTAACTG 9120

GAAAGATAAC	TGCTAGAAAT	GCGCCACCAA	CTGCACCACC	GATATGGCCT	GCTAGGCTGA	9180
TTCCTGGAAT	CAGAACACTT	CCAATAATGT	TAACCACAAA	AAGTGTCAGA	TAGGATTGCC	9240
CTAGCTGTTG	GATATAAGGA	TTGCGAGTTG	CATAGCGAAG	AACAATAATC	GCGGCAAATA	9300
GCCCATAAAG	AGAGGTAGAG	GCGCCTGCTG	CTAAGGATTT	AGGACTAAAT	ACAAAAACAA	9360
AGAGATTGCC	CATCATTCCT	GATAAAAGAT	AGAGAAAGAA	AAACTGCTTA	GAACCGAAAA	9420
TCTCCTCTAC	CTGCCTTCCA	AGATAATAAA	GTGAAAGCAT	ATTAACAATG	AAATGTTCCC	9480
ACCCAATATG	AACAAAAATG	GCAGACAAGA	GACGCCAAAC	CTGCTCGGGA	AAGAGGCGAA	9540
TAGCTGGCCC	ATACATGGCT	CCAAATCGAA	ATAATGTATC	TGCCCTGTCA	AAGTTTCCGC	9600
CTGCAGTGAC	CAACATTAGT	AAAAATACCA	AGGCCGTCAC	TAAGAGGAAG	AAACTCGTCA	9660
CAGGGTAACG	TCTATCAAAG	ATTTCCTTCA	TCAATTAATA	CCTCCTGAAC	AGGAATATCA	9720
TGGTTTTCAG	GTATAAAGTC	CTGAATTTGA	CAAGGATATA	TCGTACTCAA	AGTACGACCA	9780
GAAAAATGTT	CCAGATAGCG	GTCATAATAG	CCTCCACCGT	ATCCTATCCG	ATATCCTTTC	9840
GTCGTAAAAG	CCAGACCAGG	AACATGAATC	AAATCAATCT	GAGATGCATC	CACCACTTCC	9900
AAATCTCCCT	GTAGCTCCAG	TAAGGCAAAG	AAAGTTTTTA	CCAACTGTTG	CGGATCATAG	9960
ACCACAAAGT	CCATGCGCCC	CTTGGGATAA	GTTTTGGGTA	TTAAAACCTT	CTTGCCGTCC	10020
TTCAGCGCCT	GCTCAATCAG	TTCCTGCGTT	TGAAACTCAT	GAGAAAAAGA	GAGGTAGGTT	10080
GCGATGACCT	TGGCTTCTTG	ATAAAAGGGG	TGTTGTAAAA	GCCGCTCGGT	TAAAGCTTGG	10140
TCTATAGCCT	GTTTTTGCTC	TTGAGATATA	GCCTTCATTT	CATGCAAGAC	TTGCTTGCGT	10200
AATTCCGATT	TCATAGACAA	GCCCTCTATT	CTGCTGCCTT	CTTTTTCAGG	AAACTAGACA	10260
CCGCAGCCAC	CCCAATAGCT	AAGACTTCTT	CCTTAGGACT	CATTTGAGGG	TGATGAAGAG	10320
CGTAGGGACT	ATCGATACCT	AGCCAAAACA	TCACGCCATC	AACCTTTGAA	AGGAGATAAC	10380
CAAAGTCCTC	GCCTGTCATA	GCAGGTTCGA	TATCAATCAA	CTCGATTCCG	TCTTTTTCGT	10440
CAAAGAAGTC	CATCAGTTCA	CGCGCCAAGG	CTGGATTGTT	CTCAACAGGT	AGGTATCCAC	10500
CTTGTTTGAG	TTCCACTTCG	ACTTCCATAT	CAAAGGCAGC	TGCAACCCCT	TCTGCAACTG	10560
TTTTTACCCT	CTTTTGCACC	AAGAGACTCA	TGTCCTGTGT	CAAGGCACGA	ATAGTTCCAT	10620
GTAAAAAAGC	TGTGTCTGTG	ATGACATTGT	TGGTGGTTCC	AGCTTGAAAA	ACGCCGAAGG	10680
TCACCACTGC	TCCCTCGATT	GGGTTGACAT	TGCGGCTAAC	AACTGACTGC	ACTTGGGTCA	10740
CAAAGTAACT	AGCCGCCACC	AAGGCGTCAT	TGGCTTCATG	AGGAAAAGCT	GCGTGGCCAC	10800
CTTTGCCTTT	GAAACGGATC	TTCACCTCGC	AAGTTCCTGC	AAAGAGTGTA	TGAGTATTAG	10860

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TCGCAATCTG	GCCGACTTTC	AAATCTGGAC	220	ACCATAGAAT	TGATCTGGCA	10920
ACCAATCTCC	AAAAGCACCG	TCCTCATACA	TGAGCATACC	ACCAGCTTCA	TTTTCTTCAG	10980
CAGGCTGAAA	TAGAAAGAGC	AGATTATTCT	TGGGTTGCTC	CTCAAGGGCG	CGCTCAAGAC	11040
AGCCTAAGGC	AATGGTCATA	TGAAAATCAT	GGACACAGGC	ATGCATGCGA	CCTTGGTGTT	11100
GAGAAGCAAA	AGGTAGACCT	GTTTGTTCGA	CGATAGGCAG	GCCATCAATA	TCTGTCCGCC	11160
AACCAATGGT	TCGCTCCGGC	TGACTTCCCT	GCAGGTAGAC	CAAAATCCCT	GTCCGCCAAG	11220
TACGAATTTG	AACAAAATCC	TTGCCCGTAG	TCAATTTCTC	AATCACATCC	AGCAAATAAG	11280
CCTGAGTCTT	GAACTCCTCC	AAGCCAATCT	CTGGAATCTG	GTGTAAATCT	CGTCTAGTCT	11340
GAATCAAATC	TAACATCTAT	CTGTCCTCCG	ATATAGCAGA	AAGAGGCTGG	AAAAAGGGTT	11400
CCGCCTCTTT	TTTACTTTTA	CAATTACAAG	GTACGAAGCG	CATCCTCTAG	CGCTGTTTTT	11460
TGTTGAGTTT	GGGCATCAAT	TTCTTTGATA	ATACGAGCTG	GAACACCTGC	TACTACCACG	11520
TTTTCTGGGA	CATCTTGGGT	AACAATAGCT	CCTGCTGCGA	CAACTGAACC	ACTACCGATT	11580
TGGACTCCTT	CGATAACCAC	TGCATTAGCA	CCGATAAGAA	CATTGTCTCC	GACACGGACT	11640
GGTTCAGCAC	TAGCTGGCTC	AATCACACCT	GCCAAAACTG	CACCTGCACC	AACGTGGCTA	11700
TTTTTTCCAA	CGATGGCACG	GCCACCAAGG	ATGGCACCCA	TGTCAATCAT	GGTTCCAGCA	11760
CCGATTTCAG	CACCGATATT	GATAACAGAT	CCCATCATGA	TAACAGCATT	GTCACCAATT	11820
TCCACCTGGT	CACGGATAAT	CGCACCTGGC	TCGATACGAG	CGTTGATAGC	ACGCTTATCT	11880
AGCAAAGGAA	CTGCAGAATT	ACGAGCATCT	TGCTCGACAA	CATAATCTTG	ATTTTCTACC	11940
AAACCTTCAA	GAAGCGGAGC	CACATCCTTC	CAGTCTCCGA	ATAGGACATT	TCCTAGTTTG	12000
ACAACAGAGC	TAGGCACAGC	AGTTGCGAGT	TGCCCCTCAA	AGGTTACTTT	GACACTGGTT	12060
PTCTTTTCAG	CATTGGCGAT	AAATTGGATA	ATTTCTTGAG	CGTTCATTTT	TGTAGCAGTC	12120
ATAGGTG						12127

# (2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12566 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCATCCTTCT	GTTGATGTGA	CAGGAATGAT	GATAAATCAA	CCAGTAGCTA	GTCGCGAAGA	60
GGTGACAGAG	GCTTTGAGTC	ACTTGGCGGT	AGAGCACAAT	AGTCTCATTG	CTCGTCGAAT	120